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VICTORIA, B.C.

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A PRELIMINARY CATALOGUE

OF THE

Flora of Vancouver and Queen Charlotte Islands

VICTORIA, B.C.:
Printed by WILLIAM H. CULLIN, Printer to the King's Most Excellent Majesty.
1921.

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PROVINCIAL MUSEUM OF NATURAL HISTORY,

VICTORIA, B.C., March 7th, 1921.

The Honourable J. D. MacLean, M.D.,

Provincial Secretary and Minister of Education,

Victoria, B.C.

SIR,—I have the honour, as Director of the Provincial Museum of Natural History, to submit a preliminary Catalogue of the Flora of Vancouver and Queen Charlotte Islands.

I have the honour to be,

Sir,

Your obedient servant,

FRANCIS KERMODE,

Director.

CATALOGUE

OF THE

Flora of Vancouver and Queen Charlotte Islands.

INTRODUCTION.

A Flora is a botanical account of the plants of a country or district, with the orders or families systematically arranged under the classes, the genera under the orders, and the species (when there are more than one) under the genus to which they belong.

Of late years there has been a great awakening in the study of the flowering plants of this Province; many inquiries are made as to the names of the more popular plants and as to where their descriptions can be found. To meet these demands the Provincial Museum undertook to add greatly to the Herbarium, and received unbounded support from many persons who were very much interested in this branch of natural history. More and more people are beginning to realize the pleasure and profit that can be gained from the observation of the plants growing around us, observing their beauty, and acquiring a knowledge which greatly increases an appreciation of nature.

Botanical biology teaches us the study of plants cannot be overlooked. The very existence of the animal kingdom is solely dependent on vegetable life; the great problems of geographical distribution; the theory of organic evolution or the innermost secrets of vital phenomena, whether in health or disease, are simplified by the study of plants. Botany and zoology are dependent on each other, without one the other would cease to exist. It is a study which cannot be indefinitely postponed, as the old terrestrial order is fast passing away before our eyes; everywhere the primitive vegetation is disappearing as more and more of the earth's surface is brought under cultivation and our forests are denuded of their original growth. Much work has been done, and still greater is the work which has yet to be accomplished.

This list will, without doubt, give some idea of the many species which are to be found on Vancouver and Queen Charlotte Islands, giving known locations in which they have been collected. The scientific or Latin name is given first, followed by the English or popular name, those plants that have been introduced being printed in italic letters.

Recognizing the works and writings of our earliest botanists and biologists, the nomenclature is according to Gray's Manual wherever possible, and many other works have been consulted in connection with our western species, such as the "Flora *Boreali-Americana*," by Hooker; "Flora of the North-west Coast," by Piper and Beattie; "Illustrated Flora of the Northern States and Canada," by Britton and Brown; "Flora of Southern British Columbia," by J. K. Henry; "Flora of the Rocky Mountains and Adjacent Plains," by P. A. Rydberg, Ph.D.; and other botanical works.

The late Mr. J. M. Macoun announced in the early part of the year 1913 that he had the manuscript for a "Flora of Vancouver Island" almost ready for the press,* and that it would embody the results of several years' work by himself, Professor Macoun, and Mr. Spreadborough in various parts of Vancouver and the Queen Charlotte Islands. For reasons of ill-health and cramped quarters after

* Ottawa Naturalist, XXVI., Feb., 1913.

the fire at the Parliament Buildings at Ottawa, his intentions were not fulfilled, although he often spoke of the urgent necessity of such a work.

After the presentation to the Provincial Museum of the collection of Vancouver Island plants made by Professor Macoun, of which partial lists have been printed in our Annual Reports,* both father and son pointed out the desirability of publishing a catalogue of the flowering plants of Vancouver Island and the Queen Charlotte Group, to be based upon Professor Macoun's "Catalogue of Canadian Plants" and on Mr. J. M. Macoun's notes on new species and additions as published from time to time in the "Canadian Record of Science" and the "Ottawa Naturalist."

They promised full co-operation in order to revise the old nomenclature and bring it into conformity with the usage of the Gray Herbarium of Harvard University, an institution from which they had always had most valuable assistance in cases of doubtful identity of species.

Mr. J. M. Macoun also undertook to supply full information as to unrecorded species collected during the last few years, so that the catalogue might be as full as possible.

Soon after the work was under way the world became the poorer by the loss of both of the Macouns. It will be impossible, therefore, to make such a complete list as anticipated, and the compilers are fully aware that it must contain many errors both of omission and commission.

In spite of this, it is hoped that it may prove to be useful as a basis for future workers to build on.

The bulk of this information has been compiled in the Department by Mr. W. R. Carter, who has done considerable collecting on Vancouver Island. He has been greatly assisted by Dr. C. F. Newcombe, who has supplied a great amount of information in regard to the Flora of both Vancouver and the Queen Charlotte Islands, as his connection with anthropological research in the Province has carried him to many points, especially on the west coast, that would not probably be visited by the ordinary botanist. Dr. Newcombe also put at the disposal of the Department his rare botanical library which has been the means of supplying much data and information not otherwise obtainable.

The thanks of the Department are also due, for information, records, and specimens, to Dr. C. F. Newcombe; the late Professor Macoun; the late J. M. Macoun, C.M.G., Chief of the Biological Division of the Geological Survey, Ottawa; Mr. W. B. Anderson; Mr. J. R. Anderson; Professor J. K. Henry; Mr. W. A. Newcombe; and others, whose kindness is gratefully acknowledged.

F. K.

Victoria, B.C., March 7th, 1921.

* Pr. Mus. Rep. for 1915, 1916, 1917, 1918.

POLYPODIACEÆ (Fern Family).

ADIANTUM (Maidenhair).

A. pedatum L.
Generally distributed. Queen Charlotte Islands; Vancouver Island.

A. pedatum aleuticum Rupr.
Locally distributed, Mount Benson, V.I., *Macoun.*

ASPIDIUM (Shield Fern).

A. oreopteris Sw. (Mountain Shield Fern.)
Rare. Shawnigan Lake, V.I., *J. R. Anderson.*

A. rigidum Hoffm. (Rigid Shield Fern.)
Mount Finlayson, V.I.

A. spinulosum Swartz. (Narrow Prickly-toothed Fern.)
Common. Vancouver Island.
var. dilatatum (Hoffm.) Hook. (Broad Prickly-toothed Fern.)
Common. Queen Charlotte Islands; Vancouver Island.

ASPLENIUM (Spleenwort).

A. Filix-femina (L.) Bernh. (Lady Fern.)
Common. Skidegate, Queen Charlotte Islands; Vancouver Island.

A. Trichomanes L. (Maidenhair Spleenwort.)
Generally distributed. Queen Charlotte Islands; Vancouver Island.

A. viride Huds. (Green Spleenwort.)
Rare. Queen Charlotte Islands, *Dr. C. F. Newcombe;* Ucluelet, V.I.

CHEILANTHES (Lip Fern).

C. gracillima D. C. Eaton. (Lace Fern.)
Locally distributed, southern half of Vancouver Island—Cowichan; Mount Finlayson.

CRYPTOGRAMMA (Rock Brake).

C. acrostichoides R. Br. (Parsley Fern.)
Common. Vancouver Island.

C. densa (Brack.) Diels. (Cliff Brake.)
Locally distributed, southern half of Vancouver Island—Alberni; Sproat Lake; Mount Finlayson.

CYSTOPTERIS (Bladder Fern).

C. fragilis L. (Brittle Bladder Fern.)
Generally distributed. Queen Charlotte Islands; Vancouver Island.

C. montana Bernh. (Mountain Bladder Fern.)
Cowichan, V.I. (Glendenning's List, 1918.)

GYMNOGRAMME.

G. triangularis Kaulf. (Silver-back Fern.)
Locally distributed, southern end of Vancouver Island—Nanaimo; Mount Finlayson; Victoria.

PHEGOPTERIS (Beech Fern).

P. alpestris (Hoppe.) Mett. (Alpine Beech Fern.)
Rare. Strathcona Park, V.I., *J. M. Macoun.*

P. Dryopteris (L.) Fee. (Oak Fern.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

PHEGOPTERIS—*Continued.*

P. polypodioides Fee. (Common Beech Fern.)
Rare. Queen Charlotte Islands, *C. DeB. Green.* Strathcona Park, V.I., *J. M. Macoun.*

POLYPODIUM (Polypody).

P. vulgare L. (Common Polypody; Licorice-root Fern.)
var. occidentale Hook.
Common. Vancouver Island.

P. Scouleri Hook. & Gray. (Scouler's Polypody.)
Locally distributed, west coast of Vancouver Island; Queen Charlotte Islands; Triangle Island.

P. hesperium Maxon.
Locally distributed, Queen Charlotte Islands; Vancouver Island.

POLYSTICHUM.

P. Andersonii Hopkins. (Anderson Shield Fern.)
Rare. Strathcona Park, V.I., *W. R. Anderson.*

P. Braunii (Spenner) Fee. (Prickly Shield Fern.)
Locally distributed, Nootka, V.I.

P. Lonchitis (L.) Roth. (Holly Fern.)
Generally distributed in mountains, Vancouver Island.

P. munitum (Kaulf.) Presl. (Chamisso's Shield Fern.)
Common. Queen Charlotte Islands; Vancouver Island.

P. munitum var. imbricans (D. C. Eaton) Maxon.
Generally distributed, Vancouver Island.

P. munitum inciso-serratum (D. C. Eaton) Maxon.
Locally distributed, Vancouver Island near Victoria.

P. scopulinum (D. C. Eaton) Maxon.
Texada Island, *W. R. Anderson.*

PTERIS (Bracken).

P. aquilina L. (Bracken.)
Common. Queen Charlotte Islands; Vancouver Island.

STRUTHIOPTERIS.

S. spicant (L.) Weiss. (Deer Fern.)
Common. Vancouver Island; Queen Charlotte Islands.

WOODSIA.

W. oregana D. C. Eaton. (Oregon Woodsia.)
Rare. Cowichan River, V.I., *Macoun.*

W. scopulina D. C. Eaton. (Rocky Mountain Woodsia.)
Locally distributed, southern half of Vancouver Island—Victoria; Sooke.

WOODWARDIA (Chain Fern).

W. spinulosa Mart. & Gal. (Great Chain Fern.)
Rare. Texada Island, *W. R. Anderson;* Saanich Inlet, V.I.

OPHIOGLOSSACEÆ (Adder's Tongue Family).

BOTRYCHIUM (Grape Fern; Moonwort).

B. virginianum (L.) S. W. (Rattlesnake Fern.)
Vancouver Island—Alberni; Cowichan.

B. silaifolium Presl. (Leathery Grape Fern.)
Common. Vancouver Island.

B. simplex E. Hitch. (Little Grape Fern.)
Rare. Mount Benson, V.I., *Macoun.*

EQUISETACEÆ (Horsetail Family).

EQUISETUM.

E. arvense L. (Common Horsetail.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

E. hyemale L. (Scouring Rush.)
Locally distributed, Vancouver Island—Goldstream; Victoria.

E. limosum L. (Swamp Horsetail.)
Locally distributed, west coast of Vancouver Island—Barkley Sound, *Macoun.*

E. litorale Kuhl. (Shore Horsetail.)
Generally distributed, Vancouver Island.

E. palustre L. var. polystachium Hook. (Marsh Horsetail.)
Locally distributed, Vancouver Island—Shawnigan, Queen Charlotte Islands.

E. ramosissimum Desf.
Locally distributed, Shawnigan Lake, V.I., *Macoun.*

E. telmateia Ehrh. (Great Horsetail.)
Locally distributed, Vancouver Island—Sidney; Deadman River.

E. variegatum Schleich.
Locally distributed, Vancouver Island—Horne Lake; Cameron Lake; Shawnigan Lake, *Macoun.*

LYCOPODIACEÆ (Club Moss Family).

LYCOPODIUM (Club Moss).

L. annotinum L. var. pungens Spring. (Stiff Club Moss.)
Locally distributed, Vancouver Island—Mount Arrowsmith. Queen Charlotte Islands.

L. clavatum L. (Common Club; Staghorn Moss.)
Common, Queen Charlotte Islands; Vancouver Island.

L. complanatum L. (Ground Cedar.)
Locally distributed, Vancouver Island—Mount Mark; Mount Arrowsmith, *Macoun.*

L. inundatum L. (Marsh Club Moss.)
Locally distributed, Ucluelet, V.I., *Macoun.*

L. lucidulum Michx. (Shining Club Moss.)
Locally distributed, Vancouver Island—Cowichan Lake; Mayne Island.

L. Selago L. (Fir Club Moss.)
Locally distributed, Skidegate, Queen Charlotte Islands, *Dr. C. F. Newcombe.* Vancouver Island—Mount Benson, *Macoun;* Cowichan Lake.

L. sitchense Rupr. (Alaskan Club Moss.)
Locally distributed, Vancouver Island—Mount Arrowsmith.

SELAGINELLACEÆ.

SELAGINELLA.

S. densa Rydb.
Locally distributed, Vancouver Island—Ucluelet.

S. Wallacei Hieron.
Vancouver Island—Victoria; Malahat; Alberni; Cowichan.

S. rupestris (L.) Spring. (Rock Selaginella.)
Generally distributed, Queen Charlotte Islands; Vancouver.

S. selaginoides (L.) Link. (Low Selaginella.)
Locally distributed, Ucluelet, V.I., *Macoun.*

S. struthioloides (Presl.) Underw.
Locally distributed, west coast of Vancouver Island. First collected at Nootka Sound.

ISOETACEÆ (Quillwort Family).

ISOETES (Quillwort).

I. echinospora var. Braunii (Durieu) Engelm. (Braun's Quillwort.)
Locally distributed, Great Central Lake, V.I., *W. R. Carter.*

I. maritima Underw.
Locally distributed, Salt Marshes, Alberni, V.I., *Macoun.*

I. Nuttallii A. Br. (Nuttall's Quillwort.)
Locally distributed, Vancouver Island—Alberni; Wellington.

TAXACEÆ (Yew Family).

TAXUS.

T. brevifolia Nutt. (Yew.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

PINACEÆ (Pine Family).

ABIES.

A. amabilis (Loud.) Forbes. (Lovely Fir.)
Generally distributed in mountains, Vancouver Island.

A. grandis Lindl. (White Fir.)
Generally distributed, Vancouver Island.

CHAMÆCYPARIS (Cypress).

C. nootkatensis (Lamb.) Spach. (Yellow or Alaska Cedar.)
Locally distributed, Queen Charlotte Islands. Vancouver Island—Mount Arrowsmith; Port Renfrew; Clayoquot; and northern end of Vancouver Island.

JUNIPERUS (Juniper).

J. communis var. montana Ait.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

J. scopulorum Sarg.
Locally distributed, Vancouver Island, on the islands and mainland about the Gulf of Georgia, and northern part of Puget Sound; not elsewhere known west of Cascade Mountains.

PICEA (Spruce).

P. sitchensis (Bong.) Trautv. & Meyer. (Sitka Spruce.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

PINUS (Pine).

P. contorta Dougl. (Scrub Pine; Lodge-pole Pine.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

P. monticola Dougl. (Western White Pine.)
Locally distributed, Vancouver Island—Goldstream; Cameron Lake; Alberni; Henderson Lake.

PSEUDOTSUGA.

P. mucronata (Raf.) Sudw. (Douglas Fir.)
Common. Vancouver Island, with exception of the north end.

THUJA (Arbor Vitæ). (Cedar.)

T. plicata Donn. (Giant Cedar.)
Common. Queen Charlotte Islands; Vancouver Island.

TSUGA (Hemlock).

T. heterophylla (Raf.) Sarg. (Western Hemlock.)
Common. Queen Charlotte Islands; Vancouver Island.
T. mertensiana (Bong) Carr. (Mountain Hemlock.)
Generally distributed in the mountains, Queen Charlotte Islands; Vancouver Island.

TYPHACEÆ (Cat-tail Family).

TYPHA.

T. latifolia L. (Cat-tail.)
Generally distributed, Vancouver Island.

SPARGANIACEÆ (Bur-reed Family).

SPARGANIUM.

S. americanum var. androcladum (Englm.) F. & E. (Branching Bur-reed.)
Generally distributed, southern half of Vancouver Island.
S. angustifolium Michx. (Narrow-leaved Bur-reed.)
Locally distributed, Vancouver Island—Shawnigan Lake.
S. Greenei Morong.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
S. minimum Fries. (Small Bur-reed.)
Rare. Renfrew District, *Roscndahl & Brand;* Vancouver Island.
S. simplex Huds. (Simple-stemmed Bur-reed.)
Generally distributed, Vancouver Island.

NAJADACEÆ (Pondweed Family).

LILÆA.

L. subulata HBK.
Rare. Alberni, V.I., *Macoun; Henry.*

NAJAS (Naiad).

N. flexilis (Willd.) Rostk. & Schmidt.
Locally distributed, southern half of Vancouver Island—Sproat Lake and lakes near Victoria.

PHYLLOSPADIX (False Eel Grass).

P. Scouleri Hook.
Locally distributed, Vancouver Island—Ucluelet; Sidney; Victoria.
P. Torreyi Wats.
Locally distributed, Vancouver Island (Spreadborough); Ucluelet, *Macoun.*
On rocky shores, Vancouver Island to California.

POTAMOGETON (Pondweed).

P. alpinus Balbis.
Locally distributed, Vancouver Island—Nanaimo.
P. americanus C. & S.
Somenos Lake, V.I. (Glendenning's List, 1918.)
P. epihydrus Raf.
Quamichan Lake, V.I. (Glendenning's List, 1918.)
P. filiformis Pers.
Courtenay, V.I., *Macoun.*
P. heterophyllus Schreb. (Various-leaved Pondweed.)
Generally distributed, Vancouver Island.

POTAMOGETON—*Continued.*

P. natans L. (Common Floating Pondweed.)
Generally distributed, Vancouver Island.
P. pectinatus L. (Fennel-leaved Pondweed.)
Generally distributed, Vancouver Island, *Macoun.*
P. prælongus Wulf.
Locally distributed, southern end of Vancouver Island—Lost Lake; Langford Lake; Shawnigan Lake; Cowichan.
P. pusillus L. (Small Pondweed.)
Generally distributed, Vancouver Island.
P. Richardsonii (Benn.) Rydb.
Quamichan Lake, V.I.
P. Robbinsii Oakes.
Locally distributed, southern half of Vancouver Island—Somass River; Alberni; Lost Lake.
P. zosterifolius Schum.
Locally distributed, Vancouver Island—Langford Lake, *Macoun;* Beaver Lake; Cowichan Lake.

RUPPIA (Ditch Grass).

R. maritima L.
Vancouver Island—Alberni; Victoria.

ZOSTERA (Eel Grass; Crab Grass; Sea Wrack).

Z. marina L.
Generally distributed, Queen Charlotte Islands; Vancouver Island.
Z. latifolia Morong.
Locally distributed, Vancouver Island—Esquimalt, *Macoun.*

JUNCAGINACEÆ (Arrow Grass Family).

SCHEUCHZERIA.

S. palustris L.
Rare. Cowichan Lake, V.I.

TRIGLOCHIN (Arrow Grass).

T. maritima L. (Sea-side Arrow Grass.)
Common. Queen Charlotte Islands; Vancouver Island.
T. palustris L. (Marsh Arrow Grass.)
Queen Charlotte Islands; Marshes, Vancouver Island—Cameron Lake.

ALISMACEÆ (Water-plantain Family).

ALISMA (Water-plantain).

A. Plantago-aquatica L.
Very locally distributed, Vancouver Island—Courtenay; Cowichan.

SAGITTARIA (Arrow-head).

S. latifolia Willd. (Broad-leaved Arrow-head.)
Rare. Vancouver Island—Wellington, *W. R. Carter.*

GRAMINEÆ (Grass Family).

AIRA (Hair Grass).

A. caryophyllea L. (Silvery Hair Grass.)
Common. Queen Charlotte Islands; Vancouver Island.
A. præcox L. (Early Hair Grass.)
Common. Vancouver Island.

AGROPYRON (Wheat Grass).

A. cæsium Presl.
Rare. Vancouver Island—Victoria.
A. divergens Nees.
Locally distributed, Texada Island, *Dawson*; Vancouver Island.
A. occidentale Scrib.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
A. *repens* (L.) Beauv. (Couch Grass.)
Generally distributed, Vancouver Island.
A. tenerum Vasey. (Slender Wheat Grass.)
Locally distributed, Vancouver Island—Nanaimo; Goldstream; Duncan; Victoria.

AGROSTIS (Bent Grass).

A. æquivalis Trin.
Locally distributed, Queen Charlotte Islands. Vancouver Island—Renfrew (Rosendahl); Ucluelet; Victoria.
A. alba L. (Red Top.)
Common. Vancouver Island.
var. maritima (Lam.) Meyer.
Locally distributed, Triangle Island, *Dr. C. F. Newcombe*; Long Beach, V.I.
A. *canina* L. (Brown Bent Grass.)
Common. Vancouver Island.
A. exarata x alba Trin.
Locally distributed, Vancouver Island—Comox; Sidney. Texada Island.
A. glomerata (Presl.) Kunth.
Rare along the sea-coast of Vancouver Island to Northern California. Probably only a sub-species of (A. exarata Trin.) (*See* Piper & Beattie's "Flora of the Northwest Coast.")
A. hyemalis (Walt.) BSP. (Rough Hair Grass.)
Locally distributed, Vancouver Island—Sidney. Texada Island.
A. inflata Scribner.
Locally distributed, Vancouver Island—Esquimalt.
A. longiligula Hitch.
Locally distributed, Vancouver Island—Departure Bay; Bear Lake.
A. microphylla Steud.
Locally distributed, southern half of Vancouver Island—Qualicum; Nanaimo; Cowichan; Victoria.
A. oregonensis Vasey.
Locally distributed, Vancouver Island—Renfrew (Rosendahl); rare at Ucluelet.
A. *stolonifera* L.
Common. Vancouver Island.
var. maritima Lam.
Common. Vancouver Island.
A. varians Trin.
Queen Charlotte Islands. *Dawson*. (Macoun's "Catalogue of Plants.")
A. vulgaris L.
Locally distributed, Vancouver Island—Victoria.

ALOPECURUS (Foxtail Grass).

A. aristulatus Mac. (Short-awned Foxtail.)
Vancouver Island—Beaver Lake; Elk Lake.
A. californicus Vasey.
Locally distributed, Vancouver Island—Head of Ucluelet Inlet.

ALOPECURUS—*Continued.*

A. geniculatus L. (Marsh Foxtail.)
Locally distributed, Vancouver Island—Sidney.

A. pratensis L. (Meadow Foxtail.)
Locally distributed, Vancouver Island—Nanaimo; Victoria; Cowichan.

A. saccatus Vasey.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")

ANTHOXANTHUM (Sweet Vernal Grass).

A. odoratum L.
Generally distributed, Vancouver Island.

ARRENATHERUM (Oat Grass).

A. elatius (L.) Beauv.
Locally distributed, southern end of Vancouver Island—Beacon Hill Park, Victoria; Cadbora Bay (Mount Douglas, "Cedar Hill").

AVENA (Oat).

A. fatua var. glabrata Peter. (Wild Oat.)
Generally distributed, Vancouver Island.

A. sativa L. (Cultivated Oat.)
Common, Vancouver Island.

A. strigosa Schreb.
Locally distributed, Vancouver Island—Sooke, *Macoun.*

BECKMANNIA (Tall Slough Grass).

B. cruciformis (L.) Host. var. uniflora Scrib.
Locally distributed, Vancouver Island—Victoria, *Macoun.*

BRIZA (Quaking Grass).

B. media L.
Rare. Nanaimo, V.I., *Macoun;* Alberni, V.I., *W. R. Carter.*

BROMUS (Brome Grass).

B. aleutensis Trin.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

B. carinatus H. & A.
Locally distributed, Vancouver Island—Cowichan.

B. commutatus Schrad.
Locally distributed, Vancouver Island—Cowichan Lake; Victoria.

B. eximius (Shear.) Piper.
Locally distributed, Vancouver Island—Alberni.

B. hordeaceus L. (Soft Chess.)
Locally distributed, Vancouver Island—Sidney.

B. inermis Leyss. (Hungarian Brome.)
Locally distributed, Vancouver Island—Cowichan.

B. Macounii Vasey.
Locally distributed, Vancouver Island—Nanaimo; Victoria.

B. marginatus Nees.
Locally distributed, Vancouver Island—Nanaimo.

B. maximus Desf.
Locally distributed, Vancouver Island—Sidney; Victoria.

B. Orcuttianus Vasey.
Locally distributed, southern end of Vancouver Island—Victoria.

BROMUS—*Continued.*

B. pacificus Shear.
Locally distributed, Vancouver Island—Sidney, *Macoun.*

B. racemosus L. (Smooth Brome Grass.)
Locally distributed, Vancouver Island—Alberni; Sidney.

B. rubens L.
Locally distributed, Vancouver Island—Nanaimo.

B. secalinus L. (Chess.)
Generally distributed, southern half of Vancouver Island—Alberni; Victoria.

B. sitchensis Bong.
Locally distributed, Vancouver Island—Sidney, *Macoun.*

B. sterilis L. (Barren Brome Grass.)
Locally distributed, Vancouver Island—Saanichton; Victoria.

B. tectorum L. (Downy Brome Grass.)
Locally distributed, Vancouver Island—Saanichton, *Macoun.*

B. vulgaris Shear.
Generally distributed, southern half of Vancouver Island—Comox; Victoria.

B. vulgaris robustus Shear.
Generally distributed, southern half of Vancouver Island—Comox; Alberni; Cowichan.

CALAMAGROSTIS (Reed Bent Grass).

C. aleutica Trin.
Locally distributed, Triangle Island, *Dr. C. F. Newcombe,* Vancouver Island—Alberni; Victoria. Queen Charlotte Islands, *Dawson.*

C. canadensis var. acuminata Vasey. (Blue-joint Grass.)
Locally distributed, Vancouver Island—Comox; Departure Bay.

C. crassiglumis Thurb.
Locally distributed, Nimkish Lake, *Dawson;* Horne Lake, V.I. *Macoun.*

C. hyperborea Lange. (Northern Reed Grass.)
Locally distributed, Vancouver Island—Renfrew District, *Rosendahl & Brand.*

C. inexpansa Gray. (Bog Reed Grass.)
Vancouver Island—Cameron Lake.

C. Langsdorffii (Link.) Trin.
Locally distributed, Queen Charlotte Islands, *Dawson.* Vancouver Island—Mount Arrowsmith; Cameron Lake.

C. stricta Beauv.
Locally distributed near Socke, V.I., *Dawson;* Nootka; Observatory Inlet.

CINNA (Indian Reed Grass).

C. latifolia (Trev.) Griseb.
Locally distributed, Vancouver Island—Qualicum; Comox; Alberni; Nanaimo.

CYNODON (Bermuda Grass).

C. Dactylon (L.) Pers.
Locally distributed, Vancouver Island—Nanaimo; Victoria.

CYNOSURUS (Dog's-tail Grass).

C. cristatus L.
Generally distributed, Vancouver Island.

C. echinatus L.
Locally distributed, Vancouver Island—Nanaimo; Victoria.

DACTYLIS (Orchard Grass).

D. glomerata L.
Common. Queen Charlotte Islands; Vancouver Island.

DANTHONIA (Wild Oat Grass).

D. americana Scribn.
Generally distributed, southern half of Vancouver Island—Alberni; Cowichan; Victoria.

D. californica Boland.
Generally distributed, southern half of Vancouver Island—Alberni; Nanaimo; Sidney.

D. intermedia Vasey.
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith.

D. pinetorum Piper.
Locally distributed, Vancouver Island—Mount Benson.

D. unispicata Thurb. (Mountain Oat Grass.)
Vancouver Island. (Macoun's "Catalogue of Plants.")

DESCHAMPSIA (Tall Hair Grass).

D. atropurpurea (Wahl.) Scheele. (Mountain Hair Grass.)
Locally distributed, Vancouver Island—Mount Benson; Strathcona Park.

D. cæspitosa (L.) Beauv. (Tufted Hair Grass.)
Common and very variable. Queen Charlotte Islands; Vancouver Island.

D. cæspitosa var. arctica.
Gulf of Georgia and Queen Charlotte Islands. *Dawson.*

D. calycina Presl.
Locally distributed, Vancouver Island—Victoria; Nanaimo.

D. elongata (Hook.) Munro.
Generally distributed, southern half of Vancouver Island—Alberni; Victoria.

DISTICHLIS (Alkali; Salt Grass).

D. spicata (L.) Greene.
Common. Salt marshes of Vancouver Island.

ECHINOCHLOA (Barnyard Grass).

E. crus-galli (Linn.) Beauv.
Locally distributed, Vancouver Island—Experimental Farm, Sidney, *Macoun.*

ELYMUS (Wild Rye).

E. americanus Vasey & Scribner.
Common, Vancouver Island. (Macoun's "Catalogue of Plants.")

E. arenarius mollis Piper.
Locally distributed. Queen Charlotte Islands. Vancouver Island—Nootka; Sidney.

E. arenarius var. villosus E. Mey.
Locally distributed, Vancouver Island—Alberni.

E. borealis Scribn.
Locally distributed, Vancouver Island—Renfrew, *Roscndahl;* Ucluelet; Alberni; Sidney.

E. condensatus Presl.
Locally distributed, Vancouver Island.

E. hirsutus Presl.
Locally distributed, Vancouver Island—Bear Lake; Cowichan Lake; Sidney.

ELYMUS—*Continued.*

E. glaucus Buckl. (Smooth Wild Rye.)
Common. Vancouver Island.
var. robustus Davy.
Locally distributed, Vancouver Island—Ucluelet; Victoria.
E. vancouverensis Vasey.
Locally distributed, southern half of Vancouver Island—Comox; Sidney; Victoria. Bare Island.

FESTUCA (Fescue Grass).

F. brevifolia Watson.
Rare. Mount Arrowsmith, V.I., *Macoun.*
var. polyphylla Vasey.
Locally distributed, Vancouver Island.
F. bromoides L.
Locally distributed, Vancouver Island—Alberni.
F. elatior L. (Tall Meadow Fescue.)
Locally distributed, Vancouver Island—Comox; Cowichan. Mayne Island, *Macoun.*
F. idahoense Elmer.
Locally distributed, Mayne Island, *Macoun.*
F. megalura Nutt.
Locally distributed, southern half of Vancouver Island—Sidney; Comox. Mayne Island.
F. Myuros Linn. (Rat's-tail Fescue Grass.)
Generally distributed, Vancouver Island.
F. occidentalis Hook. (Western Fescue Grass.)
Locally distributed, Vancouver Island—Cowichan; Sidney.
F. octoflora Walt. (Slender Fescue Grass.)
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*
F. ovina L. (Sheep's Fescue Grass.)
Generally distributed, Vancouver Island; Queen Charlotte Islands, *Dawson.*
F. pacifica Piper.
Common. Vancouver Island—Nanaimo; Victoria.
F. reflexa Buckl.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
F. rubra L. (Red Fescue Grass.)
Common. Queen Charlotte Islands; Triangle Island; Princess Royal Island; Vancouver Island.
F. subulata Trin.
Locally distributed, Vancouver Island—Bear Lake; Nanaimo; Sidney; Renfrew. Queen Charlotte Islands.
F. subuliflora Scribn.
Locally distributed, Vancouver Island—Comox; Sidney.

GLYCERIA (Manna Grass).

G. borealis (Nash.) Batch.
Locally distributed, Vancouver Island—Cowichan; Beaver Lake.
G. canadensis (Michx.) Trin.
Locally distributed, Vancouver Island—Somenos Lake, *Macoun.*
G. grandis Wats.
Generally distributed, southern half of Vancouver Island.
G. leptostachya Buckl.
Rare. Alberni, V.I., *Henry.*

GLYCERIA—*Continued.*

G. nervata (Willd.) var. elata Nash. (Fowl Meadow Grass.)
Vancouver Island—Alberni; Nanaimo.

G. pumila Vasey.
Rare. Barkley Sound, V.I., *Macoun.*

G. pauciflora Presl.
Locally distributed, southern half of Vancouver Island—Nootka; Victoria; Cowichan.

G. septentrionalis Hitch.
Locally distributed, Vancouver Island—Cowichan; Victoria. (The western form of G. fluitans (L.) R. Br.)

HIEROCHLAË (Holy Grass).

H. odorata (L.) Wahlenb.
Locally distributed, southern half of Vancouver Island—Alberni; Comox; Cowichan.

HOLCUS (Velvet Grass).

H. lanatus L.
Common. Triangle Island; Vancouver Island.

HORDEUM (Barley).

H. boreale Scrib. & Smith.
Rare. Renfrew District, V.I., *Roscndahl.*

H. Gussoneanum Parl.
Locally distributed, Vancouver Island—Victoria. *Macoun.*

H. jubatum L. (Squirrel-tailed Grass.)
Locally distributed, Vancouver Island—Cowichan.

H. maritimum With.
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*

M. murinum L. (Wall Barley.)
Locally distributed, Vancouver Island—Nanaimo; Victoria.

H. nodosum L. (Meadow Barley.)
Generally distributed, Vancouver Island.

H. pusillum Nutt. (Little Barley.)
Locally distributed, Vancouver Island—Victoria.

KŒLERIA (Shining Spike Grass).

K. cristata (L.) Pers.
Generally distributed, southern half of Vancouver Island.

LOLIUM (Darnel; Rye Grass).

L. multiflorum Lam. (Italian Rye Grass.)
Common. Vancouver Island.

L. perenne L. (Rye Grass.)
Common. Vancouver Island.

L. temulentum (L.) Darnel. (Poison Darnel.)
Locally distributed, Vancouver Island—Duncan; Victoria.

MELICA (Melic Grass).

M. Geyeri Munro.
Rare. Alberni, V.I., *Henry.*

M. Harfordii Boland.
Rather rare (Macoun). Vancouver Island—Alberni; Sidney.

MELICA—*Continued.*

M. Smithii (Porter) Vasey.
Rare. Alberni, V.I., *Henry.*

M. subulata (Griseb.) Scribn.
Vancouver Island—Alberni; Cameron Lake.

MIBORA.

M. verna Beauv.
Rare. Experimental Farm, Sidney, V.I., *Macoun.*

PANICUM (Panic Grass).

P. agrostoides Spreng. (Red-top Panic.)
Locally distributed, Vancouver Island—Sproat Lake, *Macoun.*

P. barbipulvinatum Nash. (Barbed Witch Grass.)
Locally distributed, Vancouver Island.

P. capillare L. (Witch Grass.)
Locally distributed, Vancouver Island—Stamp Falls, Alberni, *Macoun;* Victoria.

P. pacificum Hitchc. & Chase.
Locally distributed, Vancouver Island—Renfrew district, *Rosendahl;* Bear Lake; Strathcona Park, *J. M. Macoun.*

P. occidentale Scribn.
Locally distributed, Vancouver Island—Nootka; Alberni.

P. Scribnerianum Nash.
Locally distributed, Vancouver Island—Cowichan; Alberni; Horne Lake.

P. unciphyllum Trin.
On rocky beaches, crevices of slate rocks, Renfrew District, *Rosendahl & Butters.*

PHALARIS (Canary Grass).

P. arundinacea L. (Reed Canary Grass.)
Locally distributed, Vancouver Island—Courtenay River; Ash River; Somenos Lake.

P. canariensis L. Locally distributed, Vancouver Island—Outer Wharf, Victoria, *Macoun.*

P. minor Retz.
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*

PHLEUM (Timothy).

P. alpinum L. (Mountain Timothy.)
Generally distributed in mountains, Vancouver Island.

P. pratense L. (Timothy.)
Common. Vancouver Island.

PHRAGMITES (Tall reed grass).

P. communis Trin.
Vancouver Island—Elk Lake.

POA (Meadow Grass; Spear Grass).

P. alpina L.
Generally distributed in mountains, Vancouver Island—Mount Benson; Mount Arrowsmith.

P. annua L. (Low Spear Grass.)
Generally distributed, Vancouver Island; Dawson Harbour, Q.C.I., with every indication of being a native plant.

POA—*Continued.*

P. Bolanderi Vasey.
Locally distributed, Vancouver Island—Sooke.

P. compressa L. (Canada Blue Grass.)
Locally distributed, Vancouver Island—Alberni; Sidney.

P. confinis Vasey.
Locally distributed in sand on sea-shore, Vancouver Island—Qualicum; Cadboro Bay; Comox.

P. eminens Presl.
Locally distributed, Vancouver Island—Long Beach, *J. R. Anderson.* (Additions to "Flora of Vancouver Island," J. M. Macoun.)

P. Howellii Vasey.
Locally distributed, Vancouver Island—Goldstream; Sidney.

P. macrantha Vasey.
Locally distributed, Vancouver Island—Victoria.

P. nevadensis Vasey.
Locally distributed, southern end of Vancouver Island—Cowichan.

P. nervosa (Hook.) Vasey.
Locally distributed, Vancouver Island—Nootka, *Scouler.*

P. paddensis Williams.
Rare. Mount Arrowsmith, V.I., *Macoun;* Strathcona Park, V.I., *J. M. Macoun.*

P. pratensis L.
Common. Vancouver Island; Triangle Island.

P. Sandbergii Vasey.
Locally distributed, Vancouver Island—Sidney.

P. triflora Gilib. (False Red-top.)
Locally distributed, Triangle Island. Southern half of Vancouver Island—Sidney; Cowichan; Renfrew. Queen Charlotte Islands.

P. tricialis L. var. filicaulis Scribner. (Rough Meadow Grass.)
Locally distributed, Comox, V.I., *Macoun.*

POLYPOGON (Beard Grass).

P. littoralis (With.) Smith.
Locally distributed, Vancouver Island—Victoria.

PUCCINELLIA (Spear Grass).

P. angustata (R. Br.) Rand & Redfield. (Arctic Meadow-Grass.)
Locally distributed in salt marshes on the coast of Vancouver Island.

P. distans (L.) Parl. (Sweet Grass.)
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

P. festuciformis (Host.) Parl.
Victoria, Oak Bay, V.I.

P. Lemmoni (Vasey) Scribn.
Locally distributed, coast of Vancouver Island.

SECALE (Rye).

S. cereale L.
Generally distributed. (Escaped from cultivation.)

SETARIA (Bristly Fox-tail Grass).

S. Italica (L.) Beauv. (Millet.) (Escaped from cultivation.)
Locally distributed, Vancouver Island—Alberni; Cowichan.

S. viridis (L.) Beauv. (Green Fox-tail Grass.)
Locally distributed, Vancouver Island—Sidney.

STIPA (Feather Grass).

S. comata Trin. & Rupr. (Needle Grass.)
Locally distributed, Vancouver Island—Victoria.

S. Lemmoni Scribn.
Locally distributed, Vancouver Island. (Mount Douglas, "Cedar Hill.")

S. viridula Trin. (Feather Bunch Grass.)
Locally distributed, southern end of Vancouver Island—Cowichan; Victoria.

TRISETUM (False Oat).

T. canescens Buckl.
Locally distributed, southern half of Vancouver Island—Horne Lake; Nanaimo; Sooke; Mount Douglas ("Cedar Hill").

T. cernuum Trin.
Generally distributed, Vancouver Island; Princess Royal Island; Banks Island; Queen Charlotte Islands.

T. spicatum (L.) Richter. (Narrow False Oat.)
Locally distributed in mountains, Vancouver Island—Mount Mark; Mount Arrowsmith.

TRITICUM (Wheat).

T. vulgare L. (Cultivated Wheat.)

CYPERACEÆ (Sedge Family).

CAREX (Sedge).

C. ablata Bailey.
Locally distributed, Vancouver Island—Mount Mark. *Macoun.*

C. abdita Bicknell.
Victoria, V.I. (Henry's "Flora of Southern British Columbia.")

C. acuta L. var. prolixa Hornem.
Locally distributed, Vancouver Island—Nanaimo; Shawnigan Lake; Qualicum; Mount Douglas ("Cedar Hill").

C. acutina Bailey.
Locally distributed, Vancouver Island—Cowichan River. (Glendenning's List, 1918.)

C. ænea Fernald. (Fernald's Hay Sedge.)
Locally distributed, Vancouver Island—Departure Bay; Alberni.

C. alpina Swartz.
Queen Charlotte Islands, *Dawson.*

C. athoxantha Presl.
Locally distributed, Queen Charlotte Islands. (Henry's "Flora of Southern British Columbia.")

C. aquatilis Wahl.
Locally distributed, Vancouver Island—Lost Lake, *Macoun.*

C. arcta Boott. (Northern-clustered Sedge.)
Common, Vancouver Island.

C. anthrostachya Olney.
Locally distributed, Vancouver Island—Nanaimo; Sidney, *Macoun.*

C. atrata Linn.
Queen Charlotte Islands, *Dawson.*

C. aurea Nutt. (Golden-fruited Sedge.)
Locally distributed, southern half of Vancouver Island—Horne Lake; Victoria.

C. bicolor All.
Locally distributed, Vancouver Island—Alberni; Shawnigan.

CAREX—*Continued.*

C. Bolanderi Olney.
Generally distributed, Vancouver Island.
var. Deweyana Schwein.
Generally distributed, Vancouver Island.
C. brevicaulis Mackenzie.
Locally distributed, Vancouver Island—Elk Lake, *Macoun.*
C. brunnescens (Pers.) Poir.
Locally distributed, Vancouver Island—Cowichan. (Glendenning's List, 1918.)
C. canescens L. (Hoary Sedge.)
Locally distributed, Vancouver Island—Courtenay; Horne Lake; Alberni.
C. circinata Meyer.
Tasu and Dawson Harbour, Queen Charlotte Islands.
C. cryptocarpa C. A. Meyer.
Common. Vancouver Island; Queen Charlotte Islands, *Dawson.*
C. densa Bailey.
Locally distributed, Vancouver Island—Nootka.
C. dives Holm.
Generally distributed, Vancouver Island.
C. exsiccata Bailey.
Generally distributed, Vancouver Island.
C. flava rectirostrata Bailey.
Locally distributed, Vancouver Island—Elk Lake, *Macoun.*
C. *flexilis* Rudge.
Locally distributed, Vancouver Island—Ucluelet. Introduced from the East with Cranberry plants.
C. feta Bailey.
Alberni, V.I., *Henry.*
C. filiformis L. (Slender Sedge.)
Horne Lake, V.I., *Macoun;* Cowichan, V.I. (Glendenning's List, 1918.)
(C. lasiocarpa Ehrh.)
C. globosa Boott.
Bear Lake, Cowichan, V.I.
C. Goodenowii Gay.
Queen Charlotte Islands. (Henry's "Flora of Southern British Columbia.")
C. Hendersoni Bailey.
Generally distributed, Vancouver Island.
C. Hindsii Clarke.
Locally distributed, Vancouver Island. (Piper & Beattie's "Flora of the Northwest Coast.")
C. illota Bailey.
Strathcona Park, V.I., *J. M. Macoun.*
C. interrupta Boeckl.
Generally distributed, Vancouver Island.
C. invisa Bailey.
Mount Arrowsmith, V.I.; Princess Royal Island.
C. Kelloggii Boott.
Generally distributed, Vancouver Island.
C. laeviculmis Meinsch.
Locally distributed, Vancouver Island—Mount Mark, *Macoun.*
C. lanuginosa Michx.
Locally distributed, lakes, Vancouver Island. (Henry's "Flora of Southern British Columbia.")

CAREX—*Continued.*

C. leiocarpa C. A. Meyer.
Skidegate, Q.C.I., *Dr. C. F. Newcombe.*

C. leporina L. (Hare's-foot Sedge.)
Locally distributed, Vancouver Island—Sidney; Alberni; Mount Arrowsmith.

C. leptalea Wahl. (Bristle-stalked Sedge.)
Generally distributed, Vancouver Island—Mount Mark; Nanaimo; Malahat; Sidney.

C. Lyngbyei Willd. (Little Prickly Sedge.)
Locally distributed, Vancouver Island—Uclulet; Wellington; Cowichan; Alberni.

C. Liddonii Boott.
Mount Douglas ("Cedar Hill"), V.I., *Macoun.*

C. limosa L.
Comox, V.I.; Mount Mark, V.I., *Macoun.*

C. livida (Wahlenb.) Willd. (Livid Sedge.)
Locally distributed, Vancouver Island—Renfrew District, *Rosendahl & Brand.*

C. macrocephala Willd.
Locally distributed on sandy sea-shore, Vancouver Island; Savary Island; Queen Charlotte Islands.

C. macrochaeta C. A. Meyer.
Skidegate, Q.C.I.

C. magnifica Dewey.
Generally distributed, Vancouver Island; Tasu Harbour, Q.C.I.

C. Mertensii Prescott.
In mountains, Vancouver Island—Mount Mark; Mount Arrowsmith.

C. Novæ-Angliæ Schwein.
Mount Arrowsmith, V.I., *Macoun.*

C. nigricans C. A. Meyer.
In mountains, Vancouver Island—Mount Arrowsmith.

C. obnupta Bailey.
Alberni, V.I., *Henry.*

C. Œderi Retz. (Green Sedge.)
Generally distributed, margins of gravelly lake-shores, Vancouver Island.

C. pachystachya Cham.
Generally distributed, Vancouver Island.

C. pauciflora Lightf. (Few-flowered Sedge.)
Langford Lake, V.I.

C. paupercula Michx.
Locally distributed, Vancouver Island—Mount Mark, *Macoun.* Xinstints, Q.C.I. Specimen examined by Professor C. V. Piper probably this species.

C. phæocephala Piper.
Locally distributed, Vancouver Island—Comox; Sidney. Mayne Island, *Macoun.*

C. physocarpa Presl.
Nootka, Kennedy Lake, V.I.

C. Piperi Mackenzie.
Sidney, V.I., *Macoun.*

C. polygama Schkr.
Locally distributed, Horne Lake, V.I.

C. praticola Rydb.
Locally distributed, Alberni, V.I., *Henry.*

CAREX—*Continued.*

C. Preslii Steud.
Generally distributed, Vancouver Island.
C. pyrenaica Wahl.
In mountains, Vancouver Island—Mount Arrowsmith.
C. rigida Good.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
C. Rossii Boott.
Generally distributed, Vancouver Island.
C. rostrata Stokes. (Beaked Sedge.)
Generally distributed, Vancouver Island.
C. salina Wahl. var. robusta Bailey.
Locally distributed, Qualicum River, V.I.
C. scirpoides Michx. (Scirpus-like Sedge.)
Mount Arrowsmith, V.I., *Macoun.*
C. scoparia Schk.
Ucluelet, V.I. Introduced from the East with Cranberry plants.
C. sitchensis Prescott.
Generally distributed, Vancouver Island.
C. stygia Fries.
Canoe Pass, Skidegate, Q.C.I.
C. stellulata (var.) ?
Locally distributed, southern half of Vancouver Island—Alberni; Mount Mark; Goldstream; Mount Newton. Yakoun Lake, Q.C.I.
C. tenuirostris Olney.
Locally distributed, Vancouver Island—Comox; Victoria.
C. teretiuscula ampla var. ramosa Boott.
Generally distributed, southern half of Vancouver Island—Alberni; Qualicum; Victoria.
C. Tolmiei Boott.
Cowichan River, V.I. (Glendenning's List, 1918.)
C. utriculata Boott.
Generally distributed, Vancouver Island.
C. vespertina (Bailey) Howell.
Generally distributed, Vancouver Island.
C. vesicaria var. major Boott.
Near Victoria. Wellington; Qualicum; Sproat Lake, V.I.

CYPERUS (Galingale).

C. inflexus Muhl.
Rare. Alberni, V.I., *Macoun.*

DULICHIUM.

D. arundinaceum (L.) Brit.
Vancouver Island—Sproat Lake; Elk Lake.

ELEOCHARIS (Spike Rush).

E. acicularis (L.) R. & S. (Least Spike Rush.)
Locally distributed, Alberni, Vancouver Island.
E. obtusa (Willd.) Schult. (Blunt Spike Rush.)
Locally distributed, Vancouver Island—Cameron Lake.
E. palustris (L.) R. & S. (Creeping Spike Rush.)
Common, Vancouver Island.
E. rostellata Torr. (Beaked Spike Rush.)
Locally distributed, salt marshes of Vancouver Island—Alberni, *Macoun.*

ERIOPHORUM (Cotton Grass).

E. Chamissonis C. A. Mey. (Russet Cotton Grass.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
E. polystachyon L. (Broad-leaved Cotton Grass.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

RYNCHOSPORA.

R. alba (L.) Vahl. (White-topped Bog Rush.)
Locally distributed, Vancouver Island—Sproat Lake; Horne Lake, *Macoun;* Renfrew District.

SCIRPUS (Club Rush; Bulrush).

S. americanus Pers. (Chair-maker's Rush.)
Generally distributed, Vancouver Island.
S. cæspitosus Linn. (Tufted Club Rush.)
Locally distributed, Mount Arrowsmith, V.I., *Macoun.*
S. microcarpus Presl. (Small-fruited Bulrush.)
Generally distributed, Vancouver Island.
S. nanus Spreng.
Locally distributed, Vancouver Island—Alberni.
S. occidentalis (Wats.) Chase. (Viscid Great Bulrush.)
Locally distributed, Vancouver Island—Sidney, *Macoun.*
S. pauciflorus Lightf.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21); Vancouver Island.
S. riparius Spreng.
Generally distributed, Vancouver Island—Alberni; Victoria.
S. robustus Pursh. (Salt-marsh Bulrush.)
Generally distributed, Vancouver Island.
S. subterminalis Torr.
Rare. Strathcona Park, V.I., *J. M. Macoun;* Mount Mark.
S. validus Vahl. (American Great Bulrush.)
Generally distributed, Vancouver Island.

ARACEÆ (Arum Family).

LYSICHITON (Yellow Arum).

L. kamtschatcense (L.) Schott. (Skunk Cabbage.)
Common, Vancouver Island.

LEMNACEÆ (Duckweed Family).

LEMNA (Duckweed).

L. minor L. (Lesser Duckweed.)
Generally distributed, Vancouver Island, *Macoun.*
L. trisulca L. (Ivy-leaved Duckweed.)
Locally distributed, Vancouver Island—Alberni; Nanaimo; Cedar Hill.

SPIRODELA.

S. polyrhiza (L.) Schleid. (Greater Duckweed.)
Locally distributed, Vancouver Island—Beaver Lake, *Macoun.*

JUNCACEÆ (Rush Family).

JUNCUS (Rush).

J. acuminatus Michx. (Sharp-fruited Rush.)
Locally distributed, Shawnigan Lake, V.I., *Wm. M. Canby.*

JUNCUS—*Continued.*

J. alpinus var. fuscescens Fernald.
Locally distributed, Vancouver Island—Cameron Lake; Strathcona Park, *J. M. Macoun.*

J. alpinus var. insignis Fries.
Common. Southern half of Vancouver Island, *Macoun.*

J. articulatus L.
Locally distributed, Shawnigan Lake, V.I., *Wm. M. Canby.*

J. balticus Willd. (Baltic Rush.)
Common. Vancouver Island; Queen Charlotte Islands.

J. Bolanderi Engelm.
Generally distributed, Vancouver Island.

J. brevicaudatus (Engelm.) Fernald.
Ucluelet, V.I.

J. bufonius L. (Toad Rush.)
Generally distributed, Vancouver Island.
var. fasciculiflorus Boiss.
Generally distributed, Vancouver Island.

J. Regelii Buck.
Locally distributed, Vancouver Island—Victoria Arm; Shawnigan; Bare Island.

J. Covillei Piper.
Vancouver Island—Comox; Nanaimo; Alberni.

J. effusus L. (Common Rush.)
Common. Vancouver Island.
var. compactus L. & C.
Ucluelet, V.I.
var. gracilis Hook.
Common. Vancouver Island.
var. hesperius Piper.
Vancouver Island—Ucluelet; Departure Bay; Sidney. *Macoun.*
var. pacificus Fernald & Wiegand.
Generally distributed, Vancouver Island.

J. ensifolius Wiks.
Common. Vancouver Island; Queen Charlotte Islands.
var. major Hook.
Generally distributed, Vancouver Island.

J. falcatus Meyer.
Vancouver Island—Alberni; Comox; Cowichan; Shawnigan. Mayne Island.
var. alascensis Coville.
Locally distributed, Vancouver Island—Renfrew District, *Rosendahl;* Kennedy Lake; Strathcona Park.

J. Gerardi Loisel. (Black Grass.)
Vancouver Island—Comox; Nanaimo.

J. Lescurii Boland.
Generally distributed, Vancouver Island.

J. Mertensianus Bong. (Alpine Bog Rush.)
Generally distributed in mountain marshes, Vancouver Island—Ucluelet; Strathcona Park; Mount Arrowsmith.

J. Nevadensis Wats.
Locally distributed in marshes, Barkley Sound, V.I.

J. nodosus L. (Knotted Rush.)
Generally distributed, Vancouver Island.

J. occidentalis Wiegand.
Locally distributed, Vancouver Island—Sidney; Elk Lake.

JUNCUS—*Continued.*

J. oreganus S. Wats.
Locally distributed, Vancouver Island—Cameron Lake; Shawnigan Lake.
J. orthophyllus Coville.
Locally distributed, Vancouver Island—Koksilah River.
J. oxymeris Engelm.
Locally distributed, Vancouver Island—Elk Lake.
J. Parryi Engelm.
Locally distributed in mountains, Vancouver Island—Mount Benson; Mount Mark; Mount Arrowsmith, *Macoun.*
J. subtriflorus Coville.
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith.
J. supiniformis Engelm.
Rare. Alberni, V.I., *Macoun.*
J. tenuis Willd. (Slender Rush.)
Locally distributed, Vancouver Island—Elk Lake, *Macoun.*

LUZULA (Wood Rush).

L. campestris (L.) DC. (Common Wood Rush.)
Common. Vancouver Island.
L. comosa E. Meyer.
Rare. Victoria, V.I., *Macoun;* Renfrew District, *Rosendahl & Brand.*
L. divaricata S. Watson.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
L. glabrata Desv.
Locally distributed, Mount Arrowsmith, V.I., *W. R. Carter.*
L. parviflora (Ehrh.) Desv. (Small-flowered Wood Rush.)
Generally distributed, Vancouver Island; Mayne Island; Sisk. Skincuttle, Skidegate Channel, Q.C.I. (Osgood, "North American Fauna," No. 21.)
L. spicata (L.) DC. (Spiked Wood Rush.)
Locally distributed, Mount Arrowsmith; Mount Benson, V.I., *Macoun.*
L. subsessilis Wats.
Nootka, V.I.

LILIACEÆ (Lily Family).

ASPARAGUS.

A. officinalis. (Garden Asparagus.)
Escape from cultivation. Cowichan Bay, V.I.

ALLIUM (Onion).

A. acuminatum Hook.
Locally distributed, southern half of Vancouver Island.
A. cernuum Roth. (Nodding Wild Onion.)
Common. Vancouver Island.
A. cernuum Roth. forma alba.
Locally distributed, Cameron Lake, V.I., *W. R. Carter.*
A. crenulatum Wiegand. (Mountain Onion.)
Locally distributed, Mount Arrowsmith, V.I., *Macoun;* mountains north of Cowichan Lake.
A. Geyeri S. Wats.
Locally distributed, southern half of Vancouver Island—Victoria; Oak Bay; Cadboro Bay; Barkley Sound; Sproat Lake; Sidney; Maple Bay; Cowichan.

CAMASSIA (Camass; Wild Hyacinth).

C. quamash (Pursh.) Greene.
Common. Southern half of Vancouver Island.
C. Leichtlinii S. Watson.
Locally distributed, southern half of Vancouver Island.
C. Suksdorfii (Greenman) Piper.
Not common. Sidney, V.I., *J. M. Macoun.*

CLINTONIA.

C. uniflora (Schult.) Kunth. (Queen Cup.)
Locally distributed, central portion of Vancouver Island—Alberni; Cowichan.

DISPORUM (Fairy Bells).

D. oreganum (S. Wats.) B. & H.
Common. Vancouver Island.
D. Smithii (Hook.) Piper.
Locally distributed, Vancouver Island—Nitinat River.

ERYTHRONIUM (Adder's-tongue; Easter Lily).

E. giganteum Lindl. (White Easter Lily.)
Common. Vancouver Island.
E. Howellii Wats.
Rare. Cowichan Lake, *J. R. Anderson;* Barkley Sound, V.I., *Hillier.*
E. montanum Wats.
Rare. Great Central Lake, V.I., *Fraser.*
E. parviflorum (S. Wats.) Gooding. (Small Yellow Easter Lily.)
Rare. Mount Prevost, V.I.
E. Smithii Hook. (Pink Adder's-tongue.)
Locally distributed, Vancouver Island—Nootka; Holberg; Alberni; Cowichan; Nitinat.

FRITILLARIA (Fritillaria; Snake Lily).

F. camtschatcensis (L.) Ker-Gawl.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna, No. 21). Vancouver Island—Alberni; Comox; Cowichan.
F. lanceolata Pursh.
Generally distributed, Vancouver Island.

HOOKERA (Wild Hyacinth).

H. coronaria Salish.
Locally distributed, southern half of Vancouver Island—Alberni; Northfield; Cowichan; Victoria.
H. Douglasii S. Wats. (Wild Hyacinth.)
Locally distributed, near Victoria, V.I.; Quamichan.
H. hyacinthina (Lindl.) Kuntz. (Fool's Onion.)
Generally distributed, southern half of Vancouver Island.

LILIUM (Lily).

L. parviflorum (Hook.) Holtz. (Wild Tiger Lily.)
Common. Vancouver Island.

LLOYDIA.

L. serotina (L.) Sweet. (Mountain Spiderwort.)
Rare. Strathcona Park, V.I., *J. M. Macoun.*

MAIANTHEMUM (Wild Lily-of-the-Valley).

M. bifolium (L.) var. kamtschaticum Gmel.
Common. Queen Charlotte Islands; Vancouver Island.

NOTHOSCORDUM (Yellow False Garlic).

N. bivalve (L.) Britton.
Plant collected by Jack Miller on Foul Bay Road, Victoria, V.I.

SMILACINA (False Solomon's Seal).

S. racemosa (L.) Desf. (False Spikenard.)
Generally distributed, Vancouver Island. (S. brachypetala Rydb. and S. amplexicaulis Nutt. are referred to under this species.)
S. sessilifolia Nutt.
Generally distributed, Vancouver Island.
S. stellata (L.) Desf. (Star-flowered Solomon's Seal.)
Common. Queen Charlotte Islands; Vancouver Island.

STENANTHIUM.

S. occidentale Gray. (Western Stenanthium; Bronze Bells.)
Locally distributed, Vancouver Island—Holberg; Beaufort Range, Alberni; Mount Arrowsmith Trail.

STREPTOPUS (Twisted-stalk).

S. amplexifolius (L.) DC. (Clasping-leaved Twisted-stalk.)
Common. Queen Charlotte Islands; Vancouver Island.
S. roseus Michx. (Sessile-leaved Twisted-stalk.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21.) Vancouver Island—Nitinat; Cowichan.

TOFIELDIA (False Asphodel).

T. intermedia Rydb.
Generally distributed, Queen Charlotte Islands; Vancouver Island.
T. occidentalis.
Yakoun Lake, Q.C.I.

TRILLIUM (Wake Robin).

T. ovatum Pursh.
Common. Vancouver Island.

VERATRUM (False Hellebore).

V. viride Ait.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

ZYGADENUS (Zygadene).

Z. venenosus Wats. (Poison Camass.)
Generally distributed, southern half of Vancouver Island.

IRIDACEÆ (Iris Family).

HYDASTYLUS (Yellow Sisyrinchium).

H. borealis Bickn.
Locally distributed, Vancouver Island—Alberni; Cape Scott; Cameron Lake; Shawnigan Lake; Cowichan.

IRIS (Fleur-de-Lis; Flag).

I. versicolor L. (Large Blue Flag.)
Ucluelet, V.I., *Macoun.*

SISYRINCHIUM (Blue-eyed Grass).

S. birameum Piper.
Generally distributed, Vancouver Island.

S. grandiflorum Dougl.
Locally distributed, southern end of Vancouver Island—Victoria.

S. idahoënse Beckn.
Generally distributed, Vancouver Island.

S. littorale Greene.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Nootka; Ucluelet; Victoria.

S. Macounii Bickn.
Locally distributed, Vancouver Island—Comox, *Macoun;* Ucluelet.

S. segetum Bickn.
Locally distributed, Sproat Lake Falls, V.I.; Cameron Lake, V.I., *W. R. Carter.*

ORCHIDACEÆ (Orchid Family).

CALYPSO (False Lady's Slipper).

C. bulbosa (L.) Oakes.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

CYPRIPEDIUM (Lady's Slipper; Moccasin Flower).

C. montanum Dougl.
Rare. Apparently extinct on Vancouver Island; originally found near Victoria.

CORALLORRHIZA (Coral Root).

C. innata R. Br. (Early Coral Root.)
Mount Arrowsmith, V.I., *Macoun.*

C. maculata Raf. (Spotted Coral Root.)
Common. Vancouver Island.

C. Mertensiana Bong. (Spurred Coral Root.)
Locally distributed, Vancouver Island—Beaufort Range; Cowichan Lake; Queen Charlotte Islands, *Dawson.*

C. striata Lindl. (Striped Coral Root.)
Generally distributed, Vancouver Island.

EPIPACTIS (Rattlesnake Plantain).

E. decipiens (Hook.) Ames. (Menzie's Rattlesnake Plantain.)
Common. Queen Charlotte Islands; Vancouver Island.

HABENARIA (Rein Orchid).

H. bracteata (Willd.) R. Br. (Long-bracted Orchis.)
Locally distributed, Goldstream, V.I.

H. dilatata (Pursh.) Gray. (Tall White Bog Orchis.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

H. elegans Lindl.
Generally distributed, Vancouver Island.

H. graminifolia Rydb.
Locally distributed, Cameron Lake, V.I.

H. leucostachys (Lindl.) Wats. (Giant Orchis.)
Common. Queen Charlotte Islands; Vancouver Island.

H. Michæli Greene.
Locally distributed, Victoria, V.I.

HABENARIA—*Continued.*

H. orbiculata (Pursh.) Torr. (Large Round-leaved Orchis.)
Rare. Strathcona Park, V.I.; *W. B. Anderson.*

H. stricta Lindley. (Green Bog Orchis.)
Locally distributed, Vancouver Island—Beaufort Range; Mount Arrowsmith; Cowichan Lake. Queen Charlotte Islands.

H. unalaschensis (Spreng.) Wats. (Alaska Orchis.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

H. viridiflora (Cham.) Rydb. (Tall Leafy Green Orchis.)
Locally distributed, Mount Brenton, V.I.

LISTERA (Twayblade).

L. caurina Piper. (Western-wood Twayblade.)
Generally distributed, Vancouver Island.

L. convallarioides (Sw.) Torr. (Broad-lipped Twayblade.)
Locally distributed, Queen Charlotte Islands—Tasu Harbour, *Dr. C. F. Newcombe.* Vancouver Island—Alberni; Mount Prevost.

L. cordata (L.) R. Br. (Heart-leaved Twayblade.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

SPIRANTHES (Ladies Tresses).

S. Romanzoffiana Cham.
Generally distributed, Queen Charlote Islands; Vancouver Island.

SALICACEÆ (Willow Family).

SALIX (Willow).

S. Geyeriana Anders.
Locally distributed, Vancouver Island—Saanich, *Macoun.*

S. Hookeriana Barr.
Common. Vancouver Island.
var. laurifolia Henry.
Locally distributed, Alberni, V.I.

S. lasiandra Benth. (Black Willow.)
Common. Vancouver Island.

S. Mackenziana (Hook.) Barr.
Not common. Vancouver Island—Victoria.

S. macrostachya Nutt.
Locally distributed, Koksilah River, V.I.

S. melanopsis Nutt.
Locally distributed, Cowichan River, V.I.

S. prolixa Anders.
Victoria, V.I., *Macoun.*

S. sitchensis (Sanson) Bong. (Sitka Willow.)
Common. Queen Charlotte Islands; Vancouver Island.

S. Scouleriana (Hook.) Barr.
Common. Queen Charlotte Islands; Vancouver Island.

POPULUS (Poplar).

P. tremuloides Michx. (Aspen.)
Locally distributed, Vancouver Island—Alberni; Cowichan; Victoria.

P. trichocarpa T. & G. (Black Cottonwood.)
Generally distributed, Vancouver Island.

P. Vancouveriana Trelease.
Locally distributed, Sidney, V.I., *Macoun.*

MYRICACEÆ (Bay-berry Family).

MYRICA (Bay-berry).

M. Gale L. (Sweet Gale.)
Common. Queen Charlotte Islands; Vancouver Island.

BETULACEÆ (Birch Family).

ALNUS (Alder).

A. rubra Bong. (Red Alder.)
Common. Queen Charlotte Islands; Vancouver Island.

A. sitchensis (Regel.) Sarg. (Green Alder.)
Generally distributed in higher elevations on Vancouver Island; Queen Charlotte Islands, *Dr. C. F. Newcombe*.

BETULA (Birch).

B. Hallii Howell.
Locally distributed, Lost Lake, V.I., *C. C. Pemberton; Macoun*.

B. glandulosa Michx. (Dwarf Birch.)
Locally distributed, Mount Douglas ("Cedar Hill"), *J. R. Anderson*.

B. occidentalis Hook. (Western Birch.)
Locally distributed, near Victoria, V.I.

CORYLUS (Hazel).

C. rostrata Ait. var. californica A. DC.
Locally distributed, Goldstream, V.I., *Macoun*.

FAGACEÆ (Beech Family).

QUERCUS (Oak).

Q. Garryana Dougl. (Garry Oak.)
Locally distributed, Victoria, and southern end of Vancouver Island.

URTICACEÆ (Nettle Family).

HUMULUS (Hop).

H. Lupulus L. (Common Hop.)
Generally distributed, Vancouver Island. (Escaped from cultivation.)

ULMUS (Elm). (English Elm.)

U. campestris L.
Locally distributed, Vancouver Island—Saanichton; Sidney.

URTICA (Nettle).

U. Lyallii Wats. (Stinging Nettle.)
Common. Vancouver Island; Queen Charlotte Islands.

U. urens L. (Small Nettle.)
Locally distributed, Victoria, V.I.

SANTALACEÆ (Sandalwood Family).

COMANDRA (Bastard Toad-flax).

C. Richardsiana Fernald.
Locally distributed, Langford Lake, V.I., *Macoun*.

LORANTHACEÆ (Mistletoe Family).

ARCEUTHOBIUM (Mistletoe).

A. americanum Nutt.
Locally distributed, Victoria, V.I., *Macoun*.

ARCEUTHOBIUM—*Continued.*

A. tsugensis Rosendahl.
Locally distributed, Vancouver Island, west coast.

ARISTOLOCHIACEÆ (Birthwort Family).

ASARUM (Wild Ginger).

A. caudatum Lindl.
Vancouver Island—Comox; Alberni; Sahtlam.

POLYGONACEÆ (Buckwheat Family).

OXYRIA.

O. digyna (L.) Hill. (Mountain Sorrel.)
Rare. Mount Arrowsmith, V.I., *W. R. Carter.*

POLYGONUM (Knotweed).

P. amphibium L. (Willow Weed.)
Generally distributed, Vancouver Island.
P. amphibium var. Hartwrightii (Gray) Bissell.
Locally distributed, Vancouver Island—Colquitz River.
P. aviculare L. (Door Weed.)
Common. Vancouver Island.
var. vegetum Ledeb. (Knot Grass.)
Generally distributed, Vancouver Island.
P. buxiforme Small.
Locally distributed, Victoria, V.I., *Macoun.*
P. Convolvulus L. (Bindweed.)
Common. Vancouver Island.
P. Douglasii Greene. (Douglas' Knotweed.)
Locally distributed, southern half of Vancouver Island—Comox; Alberni; Cameron Lake.
P. emersum (Michx.) Britt.
Locally distributed, Vancouver Island—Comox.
P. Fowleri Robinson. (Fowler's Knotweed.)
Locally distributed, Vancouver Island—Victoria.
P. Hydropiper L. (Smartweed.)
Common. Vancouver Island.
P. hydropiperoides Michx. (Wild Water-pepper.)
Vancouver Island—Beaver Lake.
P. lapathifolium L. (Pale Persicaria.)
Locally distributed, Tasu Harbour, Queen Charlotte Islands. Vancouver Island—Comox; Cowichan River; Sidney.
P. minimum S. Wats.
Rare. Mount Benson, V.I., *Macoun.*
P. Nuttallii Small.
Rare. Mount Mark, V.I., *Macoun;* Cowichan Lake, V.I.
P. paronychia C. & S.
Locally distributed, southern half of Vancouver Island—Comox; Victoria.
P. Persicaria L. (Lady's Thumb.)
Generally distributed, Vancouver Island.
P. rubescens Small.
Locally distributed, Victoria, V.I., *Macoun.*
P. sachalinense S. Schmitt.
Locally distributed, Vancouver Island—Sidney; Mayne Island.
P. spergulariæforme Meisn.
Common. Vancouver Island.

POLYGONUM—*Continued.*

P. tomentosum Schrank.
Locally distributed, Vancouver Island, near Victoria.

RUMEX (Dock).

R. Acetosa L. (Sour Dock.)
Not common. Vancouver Island—Victoria.
R. Acetosella L. (Sheep Sorrel.)
Common. Vancouver Island.
R. conglomeratus Murr. (Clustered Dock.)
Common. Vancouver Island.
R. crispus L. (Curled Dock; Yellow Dock.)
Generally distributed, Vancouver Island.
R. hesperius Greene.
Locally distributed, Vancouver Island—Deep Cove, *Macoun.*
R. obtusifolius L. (Broad-leaved Dock.)
Generally distributed, Vancouver Island.
R. occidentalis S. Wats. (Western Dock.)
Common. Vancouver Island.
R. persicarioides L. (Golden Dock.)
Generally distributed, Vancouver Island.
R. pulcher L. (Fiddle Dock.)
Locally distributed, Mayne Island, *Macoun.*
R. mexicanus Meisn.
Common. Queen Charlotte Islands. Vancouver Island—Nanaimo; Ucluelet; Cowichan Lake.

CHENOPODIACEÆ (Goosefoot Family).

ATRIPLEX (Orach).

A. Gmelini C. A. Meyer.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)
A. hastata L.
Locally distributed, Skidegate, Queen Charlotte Islands. Vancouver Island—Comox; Victoria.
A. patula L. var. littoralis Gray.
Generally distributed, Vancouver Island.
A. zosteræfolia (Hook.) Wats.
Locally distributed, Knox Harbour, *Dawson.*

CHENOPODIUM (Goosefoot).

C. album L. (Lamb's Quarters; Pigweed.)
Common. Vancouver Island.
C. hybridum L. (Maple-leaved Goosefoot.)
Generally distributed, Vancouver Island.
C. murale L. (Nettle-leaved Goosefoot.)
Generally distributed, Vancouver Island.
C. urbicum L. (City Goosefoot.)
Locally distributed, Vancouver Island—Victoria; Nanaimo.

SALICORNIA (Glasswort).

S. ambigua Michx.
Generally distributed, Queen Charlotte Islands. Tidal Flats, Vancouver Island.

SALICORNIA—*Continued.*

S. herbacea L.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

SALSOLA (Saltwort; Russian Thistle).

S. Kali L. var. *tenuifolia* G. F. W. Mey. (Saltwort.)
Locally distributed, Nanaimo, V.I., *Macoun.*

SUAEDA (Sea Blite).

S. maritima (L.) Dumont.
Locally distributed, Vancouver Island—Comox, *Macoun.*

AMARANTHACEÆ (Amaranth Family).

AMARANTHUS (Amaranth).

A. blitoides Wats. (Prostrate Amaranth.)
Generally distributed, Vancouver Island—Departure Bay.
A. graecizans L. (Tumble Weed.)
Locally distributed, Vancouver Island—Departure Bay.
A. retroflexus L.
Victoria, V.I., *Fletcher.*

NYCTAGINACEÆ (Four-o'clock Family).

ABRONIA.

A. latifolia Esch. (Yellow Sand Verbena.)
Common. Sandy beaches, Masset, Q.C.I. Vancouver Island—Victoria; Long Beach.
A. umbellata Lam. (Pink Sand Verbena.)
Locally distributed, Pachena Bay, V.I., *Jas. Fraser;* Ahousat, V.I., *Dr. C. F. Newcombe.*

CARYOPHYLLACEÆ (Pink Family).

ARENARIA (Sandwort).

A. capillaris Poir. var. *nardifolia* Rydb. (Hair-leaved Sandwort.)
Locally distributed, Carmanah, V.I., *J. R. Anderson.*
A. lateriflora L. (Blunt-leaved Sandwort.)
Rare. Queen Charlotte Islands, *Dr. C. F. Newcombe;* Alberni, V.I.
A. macrophylla Hook. (Large-leaved Sandwort.)
Common. Vancouver Island.
A. peploides L. (Sea-beach Sandwort.)
Common. Vancouver Island.
A. peploides var. *oblongifolia* Wats.
Locally distributed, coast of Queen Charlotte Islands. Vancouver Island—Qualicum; Long Beach; Victoria.
A. serpyllifolia L. (Thyme-leaved Sandwort.)
Victoria, V.I., *Fletcher.*
A. tenella Nutt. (Slender Sandwort.)
Locally distributed, southern end of Vancouver Island, near Victoria.
A. verna L. (Vernal Sandwort.)
Locally distributed in mountains, Vancouver Island.
var. *propinqua* (Rich.) Fernald.
Locally distributed, Vancouver Island—Mount Arrowsmith.

AGROSTEMMA.

A. Githago L. (Corn Cockle.)
Locally distributed, Cowichan River, V.I. (Glendenning's List, 1918.)

CERASTIUM (Mouse-ear Chickweed).

C. alpinum var. Fischerianum (Alpine Chickweed.)
Locally distributed, Queen Charlotte Islands, *Dr. C. F. Newcombe.*
C. arvense L. (Field Chickweed.)
Common. Vancouver Island.
C. campestre Greene.
Locally distributed, Vancouver Island—Tidal Flats, Parksville.
C. graminifolium (Greene Rydb).
Generally distributed, Vancouver Island.
C. glomeratum Thuill.
Locally distributed, Vancouver Island—Victoria.
C. nutans Raf. (Nodding Chickweed.)
Locally distributed, southern end of Vancouver Island—Kyuquot; Victoria.
C. semidecandrum L.
Locally distributed, Vancouver Island—Cadboro Bay; Victoria.
C. strictum L.
Locally distributed, Queen Charlotte Islands, *Dr. C. F. Newcombe.*
C. viscosum L. (Mouse-ear Chickweed.)
Common. Vancouver Island.
C. vulgatum L. (Larger Mouse-eared Chickweed.)
Generally distributed, Vancouver Island.

DIANTHUS (Pink).

D. Armeria L. (Deptford Pink.)
Locally distributed, Victoria, V.I.
D. deltoides L. (Meadow Pink.)
Locally distributed, Victoria, V.I.

LYCHNIS.

L. coronaria (L.) Desv. (Mullein Pink.)
Locally distributed, Nanaimo, V.I.
L. vespertina Sibth. (White Campion.)
Locally distributed, Mayne Island, *Macoun.*

SAGINA (Pearlwort).

S. crassicaulis Wats. (Fleshy Pearlwort.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
S. occidentalis Greene. (Western Pearlwort.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
S. stricta Fries.
Locally distributed, Vancouver Island—Langford Lake.

SAPONARIA (Soapwort).

S. officinalis L. (Bouncing Bet.)
Locally distributed, Vancouver Island—Sidney.
S. Vaccaria L. (Cowherb.)
Locally distributed, Vancouver Island—Victoria; Alberni; Cowichan.

SPERGULA (Spurry).

S. arvensis L. (Poverty Weed.)
Common. Vancouver Island.
S. sativa Boenn.
Generally distributed, Vancouver Island.

SPERGULARIA (Sand Spurry).

S. macrotheca Hornem.
Locally distributed, Vancouver Island—Victoria; Barkley Sound. *Macoun.*
S. marina (L.) Griseb. (Salt-marsh Sand Spurry.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Comox; Victoria.
S. rubra (L.) J. & C. Presl. (Sand Spurry.)
Common. Vancouver Island.
S. salina var. leiosperma Kindb.
Locally distributed, Vancouver Island—Sidney.

SILENE (Catchfly; Campion; Wild Pink).

S. acaulis L. (Moss Campion.)
Rare. Mount Arrowsmith, V.I., *Kermode* and *Carter.*
S. antirrhina Linn. (Sleepy Catchfly.)
Locally distributed, Vancouver Island—Malahat; Tzouhalem.
S. Armeria L. (Sweet William Catchfly.)
Locally distributed, Victoria, V.I.
S. Douglasii Hook.
Locally distributed, Mount Benson, V.I.
S. gallica L.
Locally distributed, southern half of Vancouver Island—Departure Bay; Cowichan; Victoria.
S. latifolia (Mill.) Brit. & Ren.
Cowichan, V.I. (Glendenning's List, 1918.)
S. Menziesii Hook. (Menzie's Pink.)
Generally distributed, Vancouver Island.
S. noctiflora L. (Night-flowering Catchfly.)
Locally distributed, Vancouver Island—Comox; Victoria.
S. Scouleri Hook. (Scouler's Pink.)
Locally distributed, southern end of Vancouver Island—Victoria.

STELLARIA (Chickweed).

S. aquatica (L.) Scop. (Water Chickweed.)
Locally distributed, Nanaimo, V.I.
S. borealis Bigel. (Northern Stitchwort.)
Queen Charlotte Islands. Vancouver Island—Beaver Lake; Alberni; Thetis Lake.
var. alpestris Brit.
Vancouver Island—Duncan.
var. Bongardiana Fernald.
Vancouver Island—Sidney.
var. sitchana (Steud.) Fernald.
Vancouver Island—Sidney.
S. crispa Cham. & Schlecht.
Vancouver Island—Victoria; Sidney; Alberni; Clayoquot.
S. humifusa Rottb.
Locally distributed, Vancouver Island—Ucluelet; Newcastle Island.
S. humifusa oblongifolia Fenzl. (Marsh Stitchwort.)
Blenkinsop Bay.
S. longifolia Muhl. (Long-leaved Stitchwort.)
Generally distributed, Vancouver Island.
S. media (L.) Cyrill. (Common Chickweed.)
Common. Vancouver Island.

STELLARIA—*Continued.*

S. nitens Nutt.
Very locally distributed, southern end of Vancouver Island, around Victoria, *Hill* and *Macoun*.

S. strictiflora Rydb.
Locally distributed, Vancouver Island—Beaver Lake.

S. stricta Richards var. maritima Fries.
Locally distributed, Langford Lake, V.I.

PORTULACACEÆ (Purslane Family).

CALANDRINIA.

C. caulescens Menziesii (Hook.) A. Gray.
Locally distributed, southern end of Vancouver Island—Tzouhalem; Victoria.

LEWISIA.

L. columbiana (Howell) Rob.
Locally distributed, Mount Arrowsmith and mountains north of Cowichan Lake, V.I.

L. pygmæa (Gray) Rob.
Rare. Mount Arrowsmith, V.I., *Kermode* and *Carter*.

MONTIA (Blinks).

M. asarifolia (Bong.) Howell.
Common. Masset, Queen Charlotte Islands; Vancouver Island. (Henry's "Flora of Southern British Columbia.")

M. Chamissoi (Ledeb.) Duv. & Jackson.
Locally distributed, Comox, V.I.; Alberni, V.I.

M. dichotoma (Nutt.) Howell.
Locally distributed, southern half of Vancouver Island—Victoria; Wellington.

M. diffusa (Nutt.) Greene.
Locally distributed, Vancouver Island—Cameron Lake, *J. R. Anderson*; Alberni, *J. K. Henry*.

M. fontana L. (Blinking Chickweed.)
Common. Queen Charlotte Islands; Vancouver Island.

M. Howellii Wats.
Locally distributed, Vancouver Island—Victoria; Triangle Island, *Dr. C. F. Newcombe*.

M. linearis (Dougl.) Howell.
Common. Vancouver Island.

M. parviflora Dougl.
Common. Vancouver Island.

M. parviflora var. depressa (Rob.) Gray.
Locally distributed, Vancouver Island—Alberni, Roberts Bay.

M. parvifolia Moc. (Small-leaved Spring Beauty.)
Common. Queen Charlotte Islands; Vancouver Island.

M. perfoliata (Donn.) Howell. (Spanish Lettuce.)
Common. Vancouver Island.

M. sibirica (L.) Howell. (Spring-beauty; Miner's Lettuce.)
Common. Vancouver Island; Queen Charlotte Islands.

M. spathulata (Dougl.) Howell.
Generally distributed, southern half of Vancouver Island.

PORTULACA.

P. oleracea L. (Purslane).
Locally distributed, Cowichan, V.I.

CERATOPHYLLACEÆ (Hornwort Family).

CERATOPHYLLUM.

C. demersum L.
Rare. Comox, V.I., *Macoun.*

NYMPHAECEÆ (Water Lily Family).

BRASENIA.

B. Schreberi Gmel. (Water Shield.)
Locally distributed, Vancouver Island—Long Lake, Alberni; Fourth Lake, near Victoria. Texada Island.

NYMPHÆA (Water Lily).

N. polysepala Englem. (Yellow Pond Lily.)
Common. Queen Charlotte Islands; Vancouver Island.

RANUNCULACEÆ (Crowfoot or Buttercup Family).

ACONITUM (Monkshood).

A. delphinifolium DC. (Wild Monkshood.)
Rare. Queen Charlotte Islands, *C. deB. Green.*

ACTÆA (Baneberry).

A. arguta Nutt. (Red Baneberry.)
Generally distributed, Vancouver Island.

A. eburnea Rydb. (White Baneberry.)
Rare. Vancouver Island—Sproat Lake; Henderson Lake.

ANEMONE.

A. Lyallii Britt.
Vancouver Island—Nootka; Comox; Alberni; Qualicum; Mount Benson; Henderson Lake; Cowichan; Nitinat; Malahat; Sidney; Esquimalt.

A. multifida Poir. (Wind Flower.)
Rare. Koksilah, V.I., *Worsfold.* Limestone Islands, Q.C.I., *Dr. C. F. Newcombe.*

A. narcissiflora L.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

A. occidentalis Freyn. (Pasque Flower.)
Rare. Strathcona Park, V.I., *J. M. Macoun.*

AQUILEGIA (Columbine).

A. formosa Fischer. (Wild Columbine.)
Common. Queen Charlotte Islands; Vancouver Island.

A. *vulgaris* L. (European Columbine.)
Locally distributed, Sidney, V.I., *Macoun.*

CALTHA.

C. asarifolia DC.
Rare. Comox, V.I., *J. R. Anderson;* Gawi, Q.C.I., *Dr. C. F. Newcombe.*

C. biflora DC.
Queen Charlotte Islands, *Dr. C. F. Newcombe.*

C. leptosepala DC. (Alpine Marigold.)
Common in mountain marshes, Queen Charlotte Islands; Vancouver Island.

C. palustris L. (Marsh Marigold.)
Locally distributed, Vancouver Island—Comox; Mount Arrowsmith, *Macoun.* Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

CLEMATIS.

C. ligusticifolia Nutt.
Rare. Running wild at Departure Bay, V.I.

COPTIS (Gold Thread).

C. asplenifolia Salisb.
Generally distributed, Queen Charlotte Islands. Vancouver Island—Cumberland; Francis Lake; Ucluelet.
C. trifolia (L.) Salisb.
Rare. Mount Mark, V.I., *Macoun.*

DELPHINIUM (Larkspur).

D. Ajacis L. (Rocket Larkspur).
Garden escape, Vancouver Island—Victoria; Sidney.
D. Menziesii DC. (Menzie's Larkspur.)
Common, Vancouver Island.

RANUNCULUS (Buttercup).

R. acris L. (Tall Meadow Buttercup.)
Locally distributed, Vancouver Island—Courtenay; Comox.
R. alismæfolius Geyer.
Locally distributed, near Victoria, V.I., *Macoun.*
R. aquatilis L. (Water Buttercup or Crowfoot.)
Common, Vancouver Island.
var. capillaceus DC.
Generally distributed, Vancouver Island.
R. Bongardi Greene. (Small-flowered Buttercup.)
Common, Vancouver Island.
var. Douglasii Howell.
Common, Vancouver Island.
R. circinatus Sibth.
Rare. Comox, V.I., *J. R. Anderson.*
R. cymbalaria Pursh. (Seaside Crowfoot or Buttercup.)
Locally distributed, Vancouver Island—Parksville.
var. saximontanus Fernald.
Locally distributed, Vancouver Island—Sidney.
R. Eschscholtzii Schlecht. (Alpine Buttercup.)
Common in mountains, Vancouver Island.
R. Flammula var. reptans (L.) Mey. (Creeping Spearwort.)
Common, Vancouver Island.
var. unalaschensis (Bess.) Ledeb.
Generally distributed, Vancouver Island.
R. hebecarpus Hook & Arn.
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*
R. Lobbii A. Gray. (Water Buttercup.)
Rare. Lost Lake, V.I.
R. Macounii Britton. (Macoun's Buttercup.)
Rare. Victoria, V.I., *J. R. Anderson.*
R. occidentalis Nutt. (Western Buttercup.)
Common, Queen Charlotte Islands; Vancouver Island.
R. orthorhynchus Hook. (Magnificent Buttercup.)
Vancouver Island—Comox; Alberni; Wellington; Cowichan; Sidney; Victoria.
var. platyphyllus A. Gray.
Generally distributed, Vancouver Island.

RANUNCULUS—*Continued.*

R. pennsylvanicus L. (Bristly Buttercup.)
Locally distributed, Vancouver Island—Ucluelet.
R. repens L. (Creeping Buttercup.)
Generally distributed, Vancouver Island.
R. sceleratus L. (Celery-leaved Buttercup; Cursed Buttercup.)
Rare. Bare Island, *W. B. Anderson.*

MYOSURUS.

M. major Greene. (Mouse-tail.)
Locally distributed, near Victoria, V.I., *Macoun.*

THALICTRUM (Meadow Rue).

T. occidentale A. Gray. (Western Meadow Rue.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

TRAUTVETTERIA.

T. grandis Nutt. (False Bugbane.)
Locally distributed, Vancouver Island—Hardy Bay; Comox; Alberni; Cowichan; San Juan.

TROLLIUS.

T. laxus Salish. (Globe Flower.)
Rare. Strathcona Park, V.I.; Cowichan Lake, V.I.

BERBERIDACEÆ (Barberry Family).

BERBERIS.

B. aquifolium Pursh. (Holly-leaved Mahonia.)
Common. Vancouver Island.
B. nervosa Pursh. (Oregon Grape.)
Common. Vancouver Island.
B. repens Lindl.
Vancouver Island (Fletcher). (Macoun's "Catalogue of Plants.")

ACHLYS.

A. triphylla (Smith) DC. (May Leaves.)
Vancouver Island—Alberni; Comox; Nanaimo; Qualicum; Cowichan; Shawnigan; Goldstream; Sidney; Esquimalt.

PAPAVERACEÆ (Poppy Family).

ESCHSCHOLTZIA.

E. recta.
Garden escape, Cameron Lake, V.I.
E. californica Cham.
Garden escape, Victoria, V.I.; Sidney, V.I.

PLATYSTIGMA.

P. oreganum (Nutt.) B. & H.
Locally distributed, Cedar Hill, V.I.; Mount Finlayson, V.I.

FUMARIACEÆ (Fumewort Family).

CORYDALIS (Fumitory).

C. Scouleri Hook. (Scouler's Corydalis.)
Rare. Nitinat River, V.I., *W. R. Carter.*
C. aurea Willd. var. occidentalis Engelm. (Golden Corydalis.)
Found on Vancouver Island. (Macoun's "Catalogue of Plants.")

DICENTRA.

D. formosa (Andr.) DC. (Bleeding Heart.)
Common. Vancouver Island.

CRUCIFERÆ (Mustard Family).

ARABIS (Rock Cress).

A. Breweri Wats.
Locally distributed, Tzouhalem, V.I.; Strathcona Park, V.I.
A. Drummondii Gray. (Drummond's Rock Gress.)
Locally distributed north of Cowichan Lake, V.I.
A. glabra (L.) Bernh. (Tower Mustard.)
Generally distributed, Vancouver Island.
A. hirsuta (L.) Scop. (Hairy Rock Cress.)
Generally distributed, Vancouver Island; Queen Charlotte Islands.
A. holbœllii Hornem. (Holbœll's Rock Cress.)
Victoria, V.I., *Macoun*.
A. Hookeri Lange.
Rare. Cowichan Lake, V.I.
A. lyrata L. var. occidentalis Wats. (Lyre-leaved Rock Cress.)
Locally distributed, Vancouver Island—Cowichan Lake.

ATHYSANUS.

A. pusillus (Hook.) Greene.
Locally distributed, southern end of Vancouver Island—Mount Finlayson; Observatory Hill.

BARBAREA (Winter Cress).

B. americana Rydb.
Locally distributed, Cowichan River, V.I.
B. orthoceras dolichocarpa Fernald. (Bitter Cress.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
B. vulgaris R. Br. (Yellow Rocket.)
Generally distributed, Queen Charlotte Islands; Vancouver Island; Triangle Island.

BRASSICA (Mustard; Turnip).

B. alba Gray. (White Mustard.)
Common. Vancouver Island.
B. arvensis (L.) Kize. (Charlock.)
Common. Vancouver Island.
B. campestris L. (Turnip.)
Common. Vancouver Island.
B. nigra (L.) Koch. (Black Mustard.)
Common. Vancouver Island.
B. Rapa L. (Turnip.)
Common. Escaped from cultivation, Sidney, V.I.
B. sinapistrum Boiss. (Wild Mustard.)
Locally distributed, Victoria, V.I.

CAKILE.

C. edentula (Bigel.) Hook. (Sea Rocket.)
Locally distributed, coast of Vancouver Island—Victoria; Long Beach; Ucluelet; Ahousat.

CAMELINA.

C. sativa (L.) Crantz. (False or Dutch Flax.)
Locally distributed, Vancouver Island—Victoria.

CAPSELLA.

C. Bursa-pastoris (L.) Medic. (Shepherd's Purse.)
Common. Vancouver Island.

CARDAMINE (Bitter Cress).

C. angulata Hook.
Rare. Queen Charlotte Islands, *Dr. C. F. Newcombe;* Lake San Juan, V.I., *Rosendahl.*

C. Breweri Watson.
Locally distributed, Vancouver Island—Chemainus, *J. R. Anderson.*

C. intermedia Holm.
Locally distributed, Vancouver Island—Victoria; Nanaimo; Wellington; Ucluelet.

C. kamtschatica (Regel) Schultz.
C. umbellata Greene (according to Piper).
Skidegate, Q.C.I.; Victoria, V.I.

C. occidentalis (S. Wats.) Howell.
Locally distributed, Vancouver Island—Kennedy Lake; Ucluelet.

C. oligosperma Nutt.
Common. Queen Charlotte Islands; Vancouver Island.

C. pennsylvanica Muhl. (Pennsylvania Bitter Cress.)
Generally distributed, Vancouver Island.

C. pratensis L. (Meadow Bitter Cress.)
Locally distributed, Skidegate, Q.C.I., *Dr. C. F. Newcombe.*
var. occidentalis.
Nanaimo, V.I., *Macoun.*

COCHLEARIA.

C. officinalis Linn. (Spoonwort.)
Rare. Queen Charlotte Islands; Triangle and Solander Islands, *Dr. C. F. Newcombe;* Uchucklesit, V.I.

CORONOPUS (Wart Cress).

C. didymus (L.) Sm.
Generally distributed, Nanaimo, V.I.

DENTARIA (Toothwort).

D. macrocarpa Nutt.
Locally distributed, Koksilah, V.I.; Burnside Road, Victoria, V.I.

D. tenella Pursh.
Generally distributed, Vancouver Island.

DRABA (Whitlow Grass).

D. lutea Gilib.
Victoria, V.I. (Henry's "Flora of Southern British Columbia.")

D. nemorosa L. var. hebecarpa Lindblad. (Wood Whitlow Grass.)
Locally distributed, southern end of Vancouver Island—Victoria.

D. nivalis Lilj. (Yellow Arctic Whitlow Grass.)
Rare. Mount Arrowsmith, V.I., *W. R. Carter.*

D. verna Linn. (Vernal Whitlow Grass.)
Locally distributed, Vancouver Island—Cowichan; Victoria; Cadboro Bay.

HESPERIS (Rocket).

H. matronalis L. (Dame's Violet.)
Garden escape, Victoria, V.I.; Sidney, V.I.

HUTCHINSIA.

H. procumbens Desv. (Prostrate Hutchinsia.)
Locally distributed, Vancouver Island—Beacon Hill, Victoria.

ERYSIMUM.

E. cheiranthoides L. (Treacle Mustard.)
Locally distributed, Vancouver Island—Hilliers; Cameron Lake.

E. elatum Nutt. (Western Wall-flower.)
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith and mountains north of Cameron Lake.

E. orientale R. Br.
Locally distributed, Sidney, V.I., *Macoun.*

E. torulosum Piper.
Mount Arrowsmith, V.I., *W. R. Carter.*
This plant must be segregated from E. asperum (Nutt.) DC on account of its green herbage and very different torulose pods. Perhaps all the specimens from high altitudes in the Cascade and Olympic Mountains are to be referred here, but until the present, mature pods seem not to have been collected. (C. V. Piper.)

LEPIDIUM (Peppergrass).

L. apetalum Willd.
Locally distributed, Bare Island, *W. B. Anderson.*

L. densiflorum Schw. (Wild Tongue Peppergrass.)
Locally distributed, Vancouver Island—Nanaimo.

L. Draba L. (Hoary Cress.)
Locally distributed, Vancouver Island—Victoria, *J. R. Anderson;* Alberni.

L. medium Greene.
Locally distributed, Vancouver Island—Victoria.

L. Menziesii DC.
Locally distributed, Vancouver Island—Alberni; Parksville; Victoria.

L. oxycarpum T. & G.
Locally distributed, Vancouver Island, *Macoun.* (Piper and Beattie's "Flora of the Northwest Coast.")

L. sativum L. (Garden Peppergrass.)
Generally distributed, Vancouver Island.

L. strictum Rattan.
Locally distributed, Vancouver Island—Cadboro Bay.

LOBULARIA (Sweet Alyssum).

L. maritima (L.) Desv.
Locally distributed, Vancouver Island—Victoria.

NESLIA.

N. paniculata (L.) Desv.
Locally distributed, Vancouver Island—Sidney; Nanaimo; Courtenay; Alberni.

NESODRABA.

N. megalocarpa Greene.
Rare. Triangle Island; Queen Charlotte Islands. *Dr. C. F. Newcombe.*

PLATYSPERMUM.

P. scrapigerum Hook.
Rare. Mount Finlayson, V.I., *Macoun*; Observatory Hill, V.I., *Cunningham* and *C. F. Newcombe*.

RADICULA (Watercress).

R. Armoracia (L.) Robinson. (Horseradish.)
Common. Garden escape, Vancouver Island.
R. curvisiliqua Hook.
Generally distributed, Vancouver Island.
R. indica L.
Locally distributed, Vancouver Island—Nanaimo.
R. Nasturtium-aquaticum (L.) B. & R. (Watercress.)
Locally distributed, Vancouver Island—Nanaimo; Wellington; Sidney.
R. Nuttallii Rydb.
Locally distributed, Vancouver Island—Beaver Lake; Lost Lake.
R. obtusa (Nutt.) Greene. (Blunt-leaved Yellow Cress.)
Locally distributed, Vancouver Island—Nanaimo.
R. pacifica (Howell) Greene.
Locally distributed, Vancouver Island—Victoria.
R. palustris (L.) Moench. (Marsh Cress.)
Locally distributed, Vancouver Island—Victoria.

RAPHANUS (Radish).

R. sativus L. (Garden Radish.)
Common. Garden escape.

SISYMBRIUM (Hedge Mustard).

S. altissimum L. (Tumble Mustard.)
Common. Vancouver Island.
S. officinale (L.) Scop. var. leiocarpum DC. (Hedge Mustard.)
Generally distributed, Vancouver Island.

SUBULARIA (Awlwort).

S. aquatica L. (Water Awlwort.)
Rare. Sproat Lake, Great Central Lake, Quamichan Lake, V.I.

THLASPI.

T. arvense L. (French Weed; Stinkweed.)
Locally distributed, Vancouver Island—Cowichan; Victoria.

THYSANOCARPUS (Lace Pod).

T. curvipes Hook.
Locally distributed, near Victoria, V.I.—Mount Finlayson.

DROSERACEÆ (Sundew Family).

DROSERA.

D. anglica Huds. (Oblong-leaved Sundew.)
Locally distributed, Horne Lake; Alberni, V.I.
D. rotundifolia L. (Round-leaved Sundew.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

CRASSULACEÆ (Orpine Family).

RHODIOLA.

R. Alaskana Rose.
Queen Charlotte Islands—Dawson Harbour, *Dr. C. F. Newcombe*; Chatla Village, west coast.

SEDUM (Stonecrop; Orpine).

S. divergens Wats.
Generally distributed in mountains, Burnaby Island; Queen Charlotte Islands; Vancouver Island.

S. Douglasii Hook.
Rare. Mount Finlayson, V.I., *Macoun;* Shawnigan Lake, V.I., *J. R. Anderson.*

S. oreganum Natt.
Locally distributed, Vancouver Island—Mount Mark; Mount Arrowsmith.

S. frigidum Rydberg.
Locally distributed, Skidegate, Yakoun Lake, Queen Charlotte Islands.

S. spathulifolium Hook.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

S. stenopetalum Pursh. (Narrow-petalled Stonecrop.)
Locally distributed, Vancouver Island—Victoria. Queen Charlotte Islands.

SAXIFRAGACEÆ (Saxifrage Family).

BOYKINIA (Aconite Saxifrage).

B. cincinnata Rosendahl & Rydb.
Locally distributed, Vancouver Island—Goldstream; Veluelet.

B. occidentalis Torr & Gray. (Western Saxifrage.)
Generally distributed, Vancouver Island.

HEUCHERA (Alum Root).

H. chlorantha Piper.
Locally distributed, Queen Charlotte Islands, *Dr. C. F. Newcombe;* Alberni, V.I.

H. glabra Willd. (Smooth Alum Root.)
Common. Queen Charlotte Islands; Vancouver Island.

H. micrantha Dougl.
Common. Queen Charlotte Islands; Vancouver Island.

LEPTARRHENA (Pear Leaf).

L. amplexifolia (Sternb.) Ser.
Generally distributed in mountains, Vancouver Island.

MITELLA (Bishop's Cap; Mitrewort).

M. Breweri Wats.
Locally distributed, Vancouver Island—mountains north of Cowichan Lake.

M. caulescens Nutt.
Rare. Alberni, V.I., *W. R. Carter;* Cowichan, V.I. (Glendenning's List, 1918.)

M. ovalis Greene.
Locally distributed, Vancouver Island—Alberni; Cowichan; Comox; Mount Benson; Renfrew District.

M. pentandra Hook.
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith.

PARNASSIA (Grass of Parnassus).

P. fimbriata Koenig. (Fringed Grass of Parnassus.)
Locally distributed, Queen Charlotte Islands. Vancouver Island—Mount Arrowsmith Trail; Chemainus and Koksilah Rivers.

PHILADELPHUS (Mock Orange; Syringa).

P. Gordonianus Lindl.
Locally distributed, southern portion of Vancouver Island—Cameron Lake, south.

RIBES (Currant; Gooseberry).

R. bracteosum Dougl. (Stink Currant).
Generally distributed, Queen Charlotte Islands; Vancouver Island.

R. divaricatum Dougl. (Common Gooseberry).
Generally distributed, Vancouver Island.

R. lacustre (Pers.) Poir. (Swamp Gooseberry).
Generally distributed, Vancouver Island; Queen Charlotte Islands.

R. laxiflorum Pursh.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Barkley Sound; Ucluelet.

R. Lobbii A. Gray. (Red-flowered Gooseberry.)
Common. Southern half of Vancouver Island.

R. Lobbii x divaricata.
Mill Hill, Victoria, V.I., *George Knight*. The first natural hybrid in Ribes discovered in North America. ("Canadian Field Naturalist," XXXIII., Nov., 1919, p. 94.)

R. rubrum L. (Red Currant.)
Common garden currant.

R. sanguineum Pursh. (Red-flowered Currant.)
Generally distributed, southern half of Vancouver Island.

R. setosum Lindl. (Bristly Gooseberry.)
Rare. Strathcona Park, V.I., *J. M. Macoun*.

SAXIFRAGA (Saxifrage).

S. odontoloma Piper.
Locally distributed, west coast Queen Charlotte Islands, *Dr. C. F. Newcombe*. Vancouver Island—Mount Arrowsmith Trail.

S. Bongardi (Presl.) Pursh.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Mount Arrowsmith Trail; Mount Prevost.

S. bronchialis L. (Common Mountain Saxifrage.)
Generally distributed, mountains, Vancouver Island.
var. austromontana (Wiegand) Piper.
Generally distributed, mountains, Vancouver Island.
var. vespertina (Small) Rosendahl.
Locally distributed, Queen Charlotte Islands, Canoe Pass, *W. Spreadborough*.

S. caespitosa L. (Tufted Saxifrage.)
Locally distributed, Queen Charlotte Islands. Vancouver Island—Wellington; Mount Finlayson; Tzouhalem; Sidney.

S. integrifolia Hook.
Generally distributed, southern half of Vancouver Island.

S. Lyallii Engeler. (Lyall's Saxifrage.)
Rare. Mount Arrowsmith, V.I., *Kermode & Carter*.

S. Mertensiana Bong. (Spotted Saxifrage.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Cameron Lake; Mount Arrowsmith; Cowichan River.

S. Nelsoniana D. Don.
Locally distributed, Cowichan Lake, V.I.

SAXIFRAGA—*Continued.*

S. Newcombei Small.
Rare. Triangle Island; Queen Charlotte Islands, *Dr. C. F. Newcombe.*

S. occidentalis Wats.
Generally distributed, Vancouver Island.

S. rufidula Small.
Generally distributed, Vancouver Island.

S. Tolmiei T. & G.
Locally distributed in mountains, Vancouver Island—Strathcona Park; Mount Arrowsmith; Cowichan Lake.

TELLIMA (Fringe Cup).

T. grandiflora Dougl.
Common. Vancouver Island.

T. parviflora Hook.
Common. Southern half of Vancouver Island.

T. tenella Walp.
Common. Southern end of Vancouver Island.

TIARELLA (False Mitrewort).

T. laciniata Hook. (Cut-leaved Mitrewort.)
Common. Queen Charlotte Islands. Vancouver Island—Beaufort Range; Cowichan; Alberni. Not south of Shawnigan Lake.

T. trifoliata L. (Three-leaved Mitrewort.)
Common. Queen Charlotte Islands; Vancouver Island.

T. unifoliata Hook. (Simple-leaved Mitrewort.)
Rare. Victoria, Departure Bay, and Goldstream, V.I.; Queen Charlotte Islands, *Dr. C. F. Newcombe.*

TOLMIEA.

T. Menziesii (Pursh.) T. & G.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

ROSACEÆ (Rose Family).

ALCHEMILLA.

A. macrosepala Rydb. (Lady's Mantle.)
Locally distributed, southern half of Vancouver Island—Sproat Lake Falls, Alberni; Victoria.

AMELANCHIER (June Berry; Service Berry).

A. Cusickii Fernald. (Thick-leaved Service Berry.)
Locally distributed, Cowichan River, V.I.

A. florida Lindl.
Locally distributed, Queen Charlotte Islands, *Dawson.* Common, Vancouver Island.

ARUNCUS.

A. sylvester Kost. (Goat's Beard.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

COTONEASTER.

C. Pyracantha (L.) Spach. (Evergreen Fire Thorn.)
Cultivated, Saanich, V.I.

CRATÆGUS (Thorn).

C. brevispina Dougl. (Black Hawthorn.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Comox; Uchucklesit; Victoria; Alberni.

C. *Oxyacantha* L. (English Hawthorn.)
Sidney, V.I., *Macoun*.

FRAGARIA (Strawberry).

F. bracteata Heller. (Wood Strawberry.)
Common. Vancouver Island.

F. chiloënsis (L.) Duch.
Common. Queen Charlotte Islands; Vancouver Island.

F. crinita Rydb.
Locally distributed, Sidney, V.I., *Macoun*.

F. cuneifolia Nutt.
Locally distributed, Vancouver Island—Cowichan. (Glendenning's List, 1918.)

F. Helleri Holzinger.
Locally distributed, Sidney, V.I., *Macoun*.

GEUM (Avens).

G. calthifolium Menzies.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21).

G. oregonense Schentz.
Locally distributed, Sidney, V.I., *Macoun*.

G. macrophyllum Willd. (Large-leaved Yellow Avens.)
Common. Queen Charlotte Islands; Vancouver Island.

G. strictum Ait. (Yellow Avens.)
Locally distributed, Vancouver Island—Alberni.

LUTKEA.

L. pectinata (Pursh) Kuntz. (Alpine Spiræa.)
Common. Queen Charlotte Islands; Vancouver Island—in mountains.

NUTTALLIA.

N. cerasiformis T. & G. (Bird Cherry.)
Generally distributed, Vancouver Island.

PHYSOCARPUS.

P. opulifolius (L.) Maxim. (Nine-bark.)
Common. Vancouver Island.

POTENTILLA (Cinquefoil).

P. albida Rydb.
Locally distributed, Saanich, V.I., *Macoun*.

P. Anserina L. (Silver-weed.)
Common. (Queen Charlotte Islands; Vancouver Island.

P. blennis Greene.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")

P. dichroa Rydb.
Locally distributed, Victoria, V.I., *Macoun*.

P. dissecta Purch. var. glaucophylla Wats. (Smooth Cinquefoil.)
Generally distributed in mountains, Vancouver Island.

POTENTILLA—*Continued.*

P. flabellifolia.
Rare. Strathcona Park, V.I., *J. M. Macoun.*

P. glandulosa Lindl.
Generally distributed, southern half of Vancouver Island.

P. gracilis Dougl. (Small Cinquefoil.)
Locally distributed, southern end of Vancouver Island—Victoria.

P. monspeliensis L. (Rough Cinquefoil.)
Generally distributed, Vancouver Island.

P. nivea L. (Snowy Cinquefoil.)
Rare in mountains, Vancouver Island—Mount Arrowsmith, *Fletcher* and *Anderson.*

P. palustris (L.) Scop. (Marsh or Purple Cinquefoil.)
Generally distributed, Vancouver Island.

P. recta Linn.
Rare. Union Bay, V.I., *Macoun.*

P. valida Greene.
Locally distributed, Victoria, V.I.

P. villosa Pall.
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Nootka; Uchuelet; Mount Arrowsmith; Renfrew District.

P. Wrangeliana Fisc. & Meyer.
Mount McDonald and Oak Bay, Victoria, V.I., *Dr. C. F. Newcombe.*

PRUNUS (Plum or Cherry).

P. demissa Nutt. (Choke Cherry.)
Rare. Southern end of Vancouver Island.

P. emarginata Dougl. (Wild Cherry.)
Generally distributed, Vancouver Island.

PYRUS (Apple; Pear).

P. diversifolia Bong. (Crab-apple.)
Common. Queen Charlotte Islands; Vancouver Island.

P. occidentalis Wats. (Western Mountain Ash.)
Generally distributed, Vancouver Island.

P. sitchensis (Roem.) Piper. (Alaskan Mountain Ash.)
Generally distributed, Queen Charlotte Islands; Vancouver Island

ROSA (Rose).

R. gymnocarpa Nutt.
Common. Vancouver Island.

R. nutkana Presl.
Common. Queen Charlotte Islands; Vancouver Island.

R. pisocarpa Gray.
Locally distributed, Vancouver Island—Victoria; Cowichan.

R. rubiginosa L. (Sweetbrier.)
Locally distributed, southern end of Vancouver Island—Victoria.

RUBUS (Raspberry; Blackberry).

R. arcticus L. (Arctic Bramble.)
Rare. Strathcona Park, V.I., *J. M. Macoun.*

R. Chamaemorus Linn. (Cloudberry.)
Locally distributed, Masset, Queen Charlotte Islands, *Dr. C. F. Newcombe;* Vancouver Island, near Comox Lake, *Macoun.*

R. Idæus L.
Locally distributed, Sidney, V.I., *Macoun.*

RUBUS—*Continued.*

R. laciniatus Willd. (Evergreen Blackberry.)
Common. Garden escape, Vancouver Island.
R. lasiococcus Gray.
Rare. Cowichan Lake, V.I.
R. leucodermis Dougl. (Black Raspberry.)
Generally distributed, Vancouver Island.
R. macropetalus Dougl. (Trailing Blackberry.)
Common. Vancouver Island.
R. nivalis Dougl.
Rare. Strathcona Park, V.I., *J. M. Macoun*; Comox, V.I., *W. B. Anderson.*
R. parviflorus Nutt. (Thimbleberry.)
Common. Queen Charlotte Islands; Vancouver Island.
var. Fraserianus *J. K. Henry.*
Locally distributed, Ucluelet, V.I., *Geo. Fraser.*
R. pedatus Smith. (Creeping Raspberry.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
R. spectabilis Pursh. (Salmonberry.)
Common. Queen Charlotte Islands; Vancouver Island.

SANGUISORBA (Burnet).

S. latifolia (Hook.) Coville.
Common. Queen Charlotte Islands, Vancouver Island—Henderson Lake.
S. microcephala Presl.
Locally distributed, Vancouver Island—Alberni. Yakoun Lake, Q.C.I.
S. occidentalis Nutt.
Locally distributed, Vancouver Island—Quamichan; Saanich.

SPIRÆA.

S. discolor Pursh. (Ocean Spray.)
Common. Vancouver Island.
S. Douglasii Hook. (Hardhack.)
Common. Vancouver Island.
S. Douglasii forma alba.
Locally distributed, Vancouver Island—Uplands, Victoria, *Dr. C. F. Newcombe.*
S. Menziesii Hook.
Locally distributed, Vancouver Island—Nootka; Alberni; Renfrew District; Saanich.
S. salicifolia L.
Rare. Ucluelet, V.I.

SIBBALDIA.

S. procumbens L.
Generally distributed in mountains, Vancouver Island.

LEGUMINOSÆ.

ASTRAGALUS (Milk Vetch).

A. leucopsis Torr.
Locally distributed, Nanaimo, V.I., *Macoun.*

CYTISUS (Broom).

C. scoparius Link. (Broom.)
Generally distributed, and spreading where sown, Vancouver Island.

HOSACKIA (Bird-foot Clover).

H. americana (Nutt.) Piper. (Spanish Clover.)
Locally distributed, southern end of Vancouver Island—Esquimalt, *Macoun.*

H. bicolor Dougl.
Very locally distributed, Harewood, Northfield, Wellington, V.I., *Macoun; W. R. Carter.*

H. dentieulata Drew.
Locally distributed, southern half of Vancouver Island—Alberni; Victoria.

H. gracilis Benth.
Locally distributed, Victoria, V.I., Miss Burris. Now quite plentiful, Oak Bay, William Head, V.I.

H. parviflora Benth.
Common, Vancouver Island.

LATHYRUS (Pea).

L. latifolius L. (Perennial Pea.)
A garden escape, Victoria, V.I.

L. littoralis (Nutt.) Endl. (Shore Pea.)
Locally distributed, west coast, Vancouver Island, sandy shores, Alberni.

L. maritimus (L.) Bigel. (Beach Pea.)
Common, Queen Charlotte Islands; Vancouver Island.

L. nevadensis Wats.
Rare, Cowichan Lake, V.I., *J. R. Anderson.*

L. Nuttallii Wats. (Purple Pea.)
Common, Vancouver Island.

L. palustris L. (Marsh Pea.)
Locally distributed, Vancouver Island—Alberni; Cowichan.

L. pauciflorus Fernald.
Locally distributed, Courtenay, V.I., *Macoun;* Sooke, V.I.

LUPINUS (Lupine).

L. arboreus Sims.
Garden escape, Victoria, V.I.

L. bicolor Lindl.
Common, southern end of Vancouver Island.

L. columbianus Heller.
Generally distributed, Vancouver Island; Skidegate Sandspit, Q.C.I.

L. laxiflorus Dougl.
Vancouver Island, *Watson.* (Macoun's "Catalogue of Plants.")

L. lepidus Dougl.
Locally distributed, southern end of Vancouver Island—Victoria; Goldstream.

L. littoralis Dougl. (Chinook Licorice.)
Locally distributed, Vancouver Island—Alberni; Comox, *Macoun.* Rose Spit, Skidegate, Queen Charlotte Islands, *Dr. C. F. Newcombe.*

L. micranthus Dougl.
Locally distributed, Vancouver Island—Nanoose; Nanaimo.

L. microcarpus Sims.
Locally distributed, southern end of Vancouver Island—Victoria.

L. nootkatensis Donn.
Common, Queen Charlotte Islands; Vancouver Island.

L. nootkatensis unalaskensis Wats.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

LATHYRUS—*Continued.*

L. polyphyllus Lindl.
Generally distributed, southern half of Vancouver Island—Alberni; Victoria.

L. sulphureus Dougl.
Locally distributed, Victoria, V.I., *Macoun.*

LOTUS.

L. coraiculatus L. (Ground Honeysuckle.)
Rare. Vancouver Island—Victoria, *Rev. E. I. Greene.*

MEDICAGO (Medic).

M. arabica Huds. (Spotted Medic.)
Locally distributed, Vancouver Island—Victoria.

M. orbicularis (L.) All.
Locally distributed, Vancouver Island—Esquimalt.

M. denticulata Willd.
Locally distributed, Nanaimo, V.I., *Macoun.*

M. hispida Gaertn. (Bur Clover.)
Locally distributed, Nanaimo, V.I.; Victoria, V.I.

M. lupulina L. (Black Medic.)
Locally distributed, Vancouver Island—Victoria; Nanaimo.

M. sativa L. (Alfalfa.)
Common. Escape from cultivation, Vancouver Island.

MELILOTUS (Sweet Clover; Millilot).

M. alba Desr. (White Sweet Clover.)
Locally distributed, Vancouver Island—Victoria.

M. Indica (L.) All.
Locally distributed, Vancouver Island—Nanaimo.

M. officinalis Lam. (Yellow Sweet Clover.)
Locally distributed, Vancouver Island—Victoria; Nanaimo.

PSORALEA (Psoralea).

P. physodes Dougl.
Locally distributed, southern half of Vancouver Island—Alberni; Parksville; Cowichan; Saanich.

ROBINIA.

R. Pseudo-Acacia L. (Locust Tree.)
Saanichton, V.I., *Macoun.*

TRIFOLIUM (Clover; Trefoil).

T. agrarium L. (Hop Clover.)
Generally distributed, Vancouver Island.

T. albopurpureum Torr & Gray.
Locally distributed, southern end of Vancouver Island—Oak Bay, *Macoun;* William Head.

T. arvense L. (Rabbit-foot Clover.)
Rare. Englishman's River, V.I., *W. R. Carter.*

T. cyathiferum Lindl. (Fringed Clover.)
Rare. Vancouver Island—Mount Benson, *Macoun;* also reported from Chemainus and Cowichan Rivers.

T. depauperatum Desv. (Low Clover.)
Generally distributed, southern half of Vancouver Island.

TRIFOLIUM—*Continued.*

T. dubium Sibth. (Hop Trefoil.)
Common. Vancouver Island.

T. fimbriatum Lindl. (Perennial Clover.)
Common. Vancouver Island; Queen Charlotte Islands.

T. fucatum Lindl.
Locally distributed, Cedar Hill, V.I., *Fletcher.*

T. gracilentum T. & G.
Locally distributed, Cedar Hill, V.I., *Macoun.*

T. hybridum L. (Alsike Clover.)
Locally distributed, Vancouver Island; an escape from cultivation.

T. incarnatum L. (Crimson Clover.)
Locally distributed, Vancouver Island—Victoria; Alberni.

T. medium L. (Mammoth Clover.)
Locally distributed, Vancouver Island. (Henry's "Flora of Southern British Columbia.")

T. microcephalum Pursh. (Saucer Clover.)
Generally distributed, southern half of Vancouver Island.

T. microdon H. & A. (Cup Clover.)
Generally distributed, southern half of Vancouver Island.

T. oliganthum Steud. (Few-flowered Clover.)
Generally distributed, Vancouver Island.

T. pratense L. (Red Clover.)
Generally distributed, Vancouver Island.

T. *procumbens* L. (Low Hop Clover.)
Common. Vancouver Island.

T. repens L. (White Clover.)
Common. Vancouver Island.

T. tridentatum Lindl. (Lance Clover.)
Locally distributed, Vancouver Island—Sidney, *Macoun;* Victoria.

T. variegatum Nutt. (Variegated Clover.)
Locally distributed, southern half of Vancouver Island—Sidney; Nanaimo, Mayne Island.

ULEX (Furze; Gorse).

U. europæus L.
Locally distributed, southern half of Vancouver Island—introduced in Victoria.

VICIA (Vetch).

V. americana Muhl. (American Vetch; Pea Vine.)
Common. Vancouver Island.
var. truncata (Nutt.) Brewer.
Common. Vancouver Island—Alberni; Sidney; Victoria.

V. angustifolia Reich. (Common Vetch.)
Common. Vancouver Island.

V. Cracca L. (Cow Vetch.)
Locally distributed, southern half of Vancouver Island—Alberni; Wellington.

V. gigantea Hook. (Tall Vetch.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

V. hirsuta (L.) S. F. Gray. (Hairy Vetch.)
Locally distributed, southern end of Vancouver Island—Victoria.

V. lathyroides L.
Locally distributed, Langford Plains, V.I.

VICIA—*Continued.*

V. sativa L. (Spring Vetch.)
Locally distributed, Vancouver Island—Victoria; Nanaimo; Sidney.
V. tetrasperma Loisel. (Slender Vetch.)
Locally distributed, Sidney, V.I., *Macoun.*

LINACEÆ (Flax Family).

LINUM (Flax).

L. usitatissimum L. (Common Flax.)
Found as an escape, Vancouver Island.

OXALIDACEÆ (Wood Sorrel Family).

OXALIS (Wood Sorrel).

O. corniculata L.
Rare. Nanaimo, V.I., *Macoun.*

GERANIACEÆ (Geranium Family).

ERODIUM (Storksbill).

E. cicutarium (L.) L'Her. (Hemlock Storksbill.)
Common. Vancouver Island.
E. moschatum (L.) L'Her.
Locally distributed, Esquimalt Village, V.I., *Macoun.*

GERANIUM (Geranium; Cranesbill).

G. Bicknellii Britton. (Bicknell's Cranesbill.)
Generally distributed, southern half of Vancouver Island—Alberni; Nanoose; Shawnigan.
G. carolinianum L. (Carolina Cranesbill.)
Generally distributed, Vancouver Island.
G. dissectum L. (Cut-leaved Cranesbill.)
Generally distributed, Vancouver Island.
G. molle L. (Dove's-foot Cranesbill.)
Common. Vancouver Island.
G. pusillum Burm. f. (Small-flowered Geranium.)
Generally distributed, Vancouver Island.
G. Richardsonii F. & T. (White Geranium.)
Skidegate & Limestone Island, Q.C.I., *Dr. C. F. Newcombe.*
G. Robertianum L. (Red Robin.)
Rare. Vancouver Island—Comox, *Macoun.*

EUPHORBIACEÆ (Spurge Family).

EUPHORBIA (Spurge).

E. hiscuta (Torr.) Wiegand.
Locally distributed, Sproat Lake, V.I., *W. R. Carter.*
E. Peplus L. (Petty Spurge.)
Locally distributed, Vancouver Island—Victoria.
E. serpyllifolia Pers.
Locally distributed, Vancouver Island—Victoria.

CALLITRICHACEÆ (Water Starwort Family).

CALLITRICHE (Water Starwort).

C. Bolanderi Hegelm.
Common. Vancouver Island.

CALLITRICHE—*Continued.*

C. hamulata Kuntz.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")

C. heterophylla Pursh.
Generally distributed, Vancouver Island.

EMPETRACEÆ (Crowberry Family).

EMPETRUM (Crowberry).

E. nigrum L.
Common. Queen Charlotte Islands. Vancouver Island, except the southern end—Holberg; Ucluelet; Mount Arrowsmith.

LIMNANTHACEÆ (False Mermaid Family).

LIMNANTHES.

L. Macounii Trelease.
Rare. Victoria, V.I., *Macoun*, 1875. Not known from any other locality.

ANACARDIACEÆ (Sumac Family).

RHUS (Sumac).

R. diversiloba T. & G. (Poison Oak.)
Locally distributed, Saanich Arm, V.I., *J. R. Anderson.*

CELASTRACEÆ (Staff Tree Family).

PACHISTIMA.

P. myrsinites Raf. (False Box.)
Generally distributed, southern half of Vancouver Island—Cameron Lake; Saanich.

ACERACEÆ (Maple Family).

ACER (Maple).

A. glabrum Torr. (Smooth Maple.)
Generally distributed, Vancouver Island.

A. macrophyllum Pursh. (Broad-leaved Maple.)
Common. Vancouver Island.

A. Negundo L. (Cut-leaved Maple.)
Locally distributed, Streets of Nanaimo, V.I.

RHAMNACEÆ (Buckthorn Family).

CEANOTHUS (Red-root; Snowbrush).

C. sanguineus Pursh.
Locally distributed, Vancouver Island—Cameron Lake; Malahat.

C. velutinus Dougl. var. *laevigatus* T. & G.
Locally distributed, Horne Lake, V.I., *Macoun;* Cameron Lake, V.I.

RHAMNUS (Buckthorn).

R. Purshiana DC. (Cascara Sagrada.)
Generally distributed, Vancouver Island, with the exception of the north end.

MALVACEÆ (Mallow Family).

MALVA (Mallow).

M. borealis Wallm.
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*

MALVA—*Continued.*

M. moschata L. (Musk Mallow.)
Locally distributed, Vancouver Island—Sidney.
M. neglecta Wallr.
Locally distributed, Vancouver Island—Beacon Hill, Victoria.
M. parviflora L.
Locally distributed, Foul Bay, Victoria, V.I., *Macoun.*
M. rotundifolia L. (Common Mallow; Cheeses.)
Locally distributed, Vancouver Island—Victoria; Nanaimo; Sidney; Tzouhalem; Nootka.

MALVASTRUM (False Mallow).

M. sylvestre (L.)
Locally distributed, Nanaimo, V.I., *Macoun.*

SIDALCEA (Marsh Hollyhock).

S. Hendersonii Wats.
Generally distributed, southern half of Vancouver Island.

HYPERICACEÆ (St. John's-wort Family).

ELODEA.

E. campanulata Pursh.
Ucluelet, V.I.

HYPERICUM (St. John's-wort).

H. anagalloides C. & S.
Common, Vancouver Island.
H. canadense L. (Canadian St. John's-wort.)
Locally distributed, Sproat Lake, V.I.
H. perforatum L. (Common St. John's-wort.)
Rare, Koksilah, V.I.; Alberni, V.I., *Mrs. Cory Wood.*
H. Scouleri Hook. (Scouler's St. John's Wort.)
Common, Vancouver Island.

ELANTINACEÆ (Waterwort Family).

ELATINE.

E. americana (Pursh) Arn. (Waterwort; Mud Purslane.)
Rare, Alberni, V.I., *Macoun.*

VIOLACEÆ (Violet Family).

VIOLA.

V. adunca Smith. (Hooked Violet.)
Common, Queen Charlotte Islands; Vancouver Island.
V. Andersonii Greene.
Locally distributed, Esquimalt, V.I., *J. R. Anderson.*
V. blanda Willd. (Sweet White Violet.)
Beaver Lake, V.I.
V. compacta Greene.
Locally distributed, Shawnigan V.I., *J. R. Anderson.*
V. fulcrata Greene.
Vancouver Island—Cowichan River, *J. R. Anderson.*
V. glabella Nutt. (Yellow Violet.)
Common, Queen Charlotte Islands; Vancouver Island.
V. Howellii Gray.
Locally distributed, southern portion of Vancouver Island.

VIOLA—*Continued.*

V. Langsdorffii Fischer.
Locally distributed, Vancouver Island—Shawnigan; Ucluelet; Saanich Peninsula.

V. Macloskeyi Lloyd.
Vancouver Island—Prospect Lake.

V. montanensis Rydb.
Locally distributed, Vancouver Island—Saanichton, *Macoun.*

V. Nuttallii Pursh. var. præmorsa (Dougl.) Wats. (Nuttall's Violet.)
Locally distributed, southern end of Vancouver Island—Cowichan; Saanich; Victoria.

V. orbiculata Geyer. (Round-leaved Yellow Violet.)
Rare. Strathcona Park, V.I., *J. M. Macoun;* Mount Benson, V.I., *J. R. Anderson.*

V. pallens (Banks.) Brainerd. (Northern White Violet.)
Locally distributed, Alberni, V.I., *Henry;* Beaver Lake, V.I., *J. R. Anderson.*

V. palustris L. (Marsh Violet.)
Generally distributed, Vancouver Island.
var. leimonia. J. K. Henry.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")

V. sempervirens Greene. (Evergreen Yellow Violet.)
Common. Vancouver Island.

V. *tricolor L. var. arvensis* L. (Lady's-delight.)
Experimental Farm, Sidney, V.I., *Macoun.*

CACTACEÆ (Cactus Family).

OPUNTIA (Cactus).

O. polyacantha Haw. var. borealis Coulter. (Many-spined Opuntia.)
Locally distributed, southern end of Vancouver Island—Cowichan; Gordon Head; Cadboro Bay; Hernando Island, Gulf of Georgia.

ELAEAGNACEÆ (Oleaster Family).

SHEPHERDIA.

S. canadensis (L.) Nutt. (Canadian Buffalo Berry.)
Generally distributed, Vancouver Island.

LYTHRACEÆ (Loosestrife Family).

LYTHRUM (Loosestrife).

L. Salicaria L. var. tomentosum (Hill) DC. (Spiked or Purple Loosestrife.)
Rare. Alberni, V.I., *W. R. Carter.*

ONAGRACEÆ (Evening Primrose Family).

BOISDUVALIA.

B. densiflora (Lindl.) Wats.
Locally distributed, Victoria, Wellington, and Qualicum, V.I.

CIRCEA (Enchanter's Nightshade).

C. alpina L.
Common. Queen Charlotte Islands.

C. pacifica Asch.
Common. Vancouver Island.

CLARKIA.

C. pulchella Pursh.
Rare. Somenos, V.I.

EPILOBIUM (Willow-herb).

E. adenocaulon Haussk. (Northern Willow-herb.)
Common. Vancouver Island; Triangle Island, *Dr. C. F. Newcombe;* Queen Charlotte Islands, *Dawson.*
var. occidentale Trelease.
Common. Vancouver Island.

E. alpinum L. (Alpine Willow-herb.)
Locally distributed. Vancouver Island—mountains north of Cowichan Lake; Strathcona Park; Mount Arrowsmith.

E. anagallidifolium Lam. (Pimpernel Willow-herb.)
Locally distributed. Mount Benson and Mount Arrowsmith, V.I.

E. angustifolium L. (Willow-herb; Fireweed.)
Common. Vancouver Island; Queen Charlotte Islands, *Dawson.*

E. Franciscanum Barb.
Locally distributed, Vancouver Island—Qualicum, *Macoun;* Cowichan. (Glendenning's List, 1918.)

E. glandulosum Lehm.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

E. Halleanum Haussk.
Locally distributed, Nanaimo, V.I.; Mount Douglas ("Cedar Hill"), V.I.

E. Hornemannii Reich.
Queen Charlotte Islands, *Osgood;* Vancouver Island, *Macoun.*

E. latifolium L. (Water Willow-herb.)
Locally distributed, Renfrew, V.I., *Rosendahl;* Cameron Lake, V.I.

E. luteum Pursh. (Yellow-flowered Willow-herb.)
Rare. Between Buttle and Great Central Lakes, *Capt. J. G. Cory Wood.*

E. minutum Lindl.
Locally distributed, Mount Benson, V.I., *Macoun;* Queen Charlotte Islands.

E. palustre L.
Locally distributed, Cameron Lake, V.I.

E. paniculatum Nutt. (Panicled Willow-herb.)
Common. Vancouver Island.

GODETIA.

G. caurina Abrams.
Locally distributed, southern end of Vancouver Island—Thetis Lake; Cowichan.

G. epilobioides Wats.
Locally distributed, southern end of Vancouver Island—Mount Finlayson; Colwood.

G. gracilis Piper.
Locally distributed, southern end of Vancouver Island.

G. hispidula Wats.
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*

LUDVIGIA.

L. palustris (L.) Ell. (Water Purslane.)
Locally distributed, Sproat Lake, V.I., *Macoun;* Quamichan Lake.

ŒNOTHERA (Evening Primrose).

O. biennis L. (Common Evening Primrose.)
Locally distributed, southern portion of Vancouver Island—Alberni; Victoria.

O. micrantha Horn.
Locally distributed, Nanaimo, V.I., *Macoun.*

SPILÆROSTIGMA.

S. contortum (Dougl.) Walp.
Rare. Near Victoria, V.I.

HALORAGIDACEÆ (Water Milfoil Family).

HIPPURIS (Bottle Brush).

H. montana Ledeb.
Locally distributed, Strathcona Park, V.I., *J. M. Macoun.*

H. vulgaris L.
Locally distributed, southern portion of Vancouver Island—Somenos Lake.

MYRIOPHYLLUM (Water Milfoil).

M. spicatum L. (Spiked Water Milfoil.)
Generally distributed, Vancouver Island.

M. verticillatum L. (Whorled Water Milfoil.)
Locally distributed, Alberni, V.I.; Shawnigan Lake, V.I.

ARALIACEÆ (Gingseng Family).

HEDERA.

H. helix L. (Common Ivy.)
Common. Escape from cultivation.

FATSIA.

F. horrida (Sm.) B. & H. (Devil's Club.)
Generally distributed, Queen Charlotte Islands; Vancouver Island, with the exception of the area around Victoria.

UMBELLIFERÆ (Parsley Family).

ANETHUM.

A. graveolens L. (Dill.)
Rare, Comox, V.I., *Macoun.*

ANGELICA.

A. genuflexa Nutt.
Generally distributed, Vancouver Island.

ANTHRISCUS (Chervil).

A. sativa L.
Locally distributed, Nanaimo, V.I.

CAUCALIS (Hedge Parsley).

C. microcarpa H. & A.
Locally distributed, Mayne Island; Nanaimo, V.I.; Mount Tzouhalem, *Glendenning.*

CARUM (Caraway).

C. Carvi L.
Locally distributed, Victoria, V.I.

CARUM—*Continued.*

C. Gairdneri Gray.
Common. Southern half of Vancouver Island—Comox; Alberni; Victoria.
C. oreganum Wats.
Locally distributed, Vancouver Island—Victoria.

CICUTA (Water Hemlock).

C. Douglasii (DC) C. & R.
Common. Vancouver Island.
C. occidentalis Greene.
Swan Lake, V.I.
C. vagans Greene.
Common. Vancouver Island.

CŒLOPLEURUM.

C. Gmelini (DC) Ledeb.
Locally distributed, Queen Charlotte Islands; Vancouver Island. (Thickets near tidal waters, Vancouver Island to Alaska.)
C. longipes C. & R.
Locally distributed, Vancouver Island. (Henry's "Flora of Southern British Columbia.")

CONIOSELINUM (Hemlock Parsley).

C. Gmelini C. & R.
Locally distributed, Queen Charlotte Islands. Vancouver Island—Alberni; Sidney.
C. pacificum Wats.
Locally distributed, Barkley Sound, V.I., *Macoun.*

CONIUM.

C. maculatum L. (Poison Hemlock.)
Locally distributed, southern end of Vancouver Island—Victoria.

DAUCUS (Carrot).

D. carota L. (Cultivated Carrot.)
Locally distributed, Vancouver Island. Escape from cultivation.
D. pusillus Michx. (Wild Carrot.)
Locally distributed, southern half of Vancouver Island—Alberni; Strathcona Park; Parksville.

ERYNGIUM (Eryngo).

E. articulatum Hook.
Locally distributed, Victoria, V.I.

FŒNICULUM.

F. vulgare Hill.
Garden escape. Locally distributed, Vancouver Island.

GLEHNIA.

G. littoralis (Gray) Schmidt.
Locally distributed, Queen Charlotte Islands. Vancouver Island—Victoria, *Macoun.*

HERACLEUM (Cow Parsnip).

H. lanatum Michx.
Common. Queen Charlotte Islands; Vancouver Island.

HYDROCOTYLE (Water Pennywort).

H. ranunculoides L.f.
Rare. Vancouver Island—Nanaimo, *Macoun*.

LEPTOTAENIA.

L. dissecta Nutt.
Locally distributed, southern end of Vancouver Island—in the vicinity of Victoria, *Macoun*.

LIGUSTICUM (Lovage).

L. scothicum L.
Locally distributed, ocean coast, Vancouver Island; Queen Charlotte Islands.

L. vulgare Linn.
Introduced, Victoria, V.I.

LILAEOPSIS.

L. occidentalis C. & R.
Common. Vancouver Island in most saline marshes—Comox; Alberni; Nanaimo.

LOMATIUM (Hog Fennel).

L. macrocarpum (Nutt.) C. & R.
Mount Finlayson, V.I., 1916. *Dr. C. F. Newcombe*.

L. Martindalei var. angustatum C. & R.
Locally distributed in mountains, southern half of Vancouver Island—Mount Arrowsmith; Henderson Lake.

L. nudicaule Pursh. (Indian Consumption Plant.
Locally distributed, southern half of Vancouver Island—Alberni; Wellington; Victoria.

L. triternatum C. & R.
Rare. Tzouhalem Mountain, V.I., *Glendenning*.

L. utriculatum Nutt.
Common. Southern half of Vancouver Island—Alberni; Wellington; Victoria.

OENANTHE (Water Parsley).

O. sarmentosa Presl.
Common. Southern half of Vancouver Island—Comox; Alberni; Shawnigan; Sidney. Queen Charlotte Islands, *Dr. C. F. Newcombe*.

OSMORRHIZA (Sweet Cicely).

O. brevipes.
Saanich Peninsula, *Macoun*.

O. divaricata Nutt. (Western Sweet Cicely.)
Common. Queen Charlotte Islands; Vancouver Island.

O. Leibergii C. & R.
Common. Vancouver Island.

O. purpurea C. & R.
Rare. Mount Arrowsmith, V.I., *Kermode* and *Carter;* Queen Charlotte Islands, *Dr. C. F. Newcombe*.

PASTINACA (Parsnip).

P. sativa L.
Common. Garden escape, Vancouver Island.

PETROSELINUM (Common Parsley).

P. hortense Hoffm.
Garden escape. Locally distributed, Vancouver Island.

SANICULA (Sanicle).

S. arctopoides H. & A.
Locally distributed, southern end of Vancouver Island—Victoria; Queen Charlotte Islands.

S. bipinnatifida Dougl.
Locally distributed, southern end of Vancouver Island—Cowichan; Victoria.

S. Howellii C. & R.
Generally distributed, southern half of Vancouver Island.

S. marilandica Linn. (Black Snakeroot.)
Vancouver Island, *Macoun*. (Piper & Beattie's "Flora of the North-west Coast.")

S. Menziesii Hook.
Common. Southern half of Vancouver Island—Comox; Alberni; Victoria.

S. septentrionalis Greene.
Locally distributed, southern half of Vancouver Island—Alberni; Wellington.

SIUM (Water Parsnip).

S. suave Walt.
Common. Vancouver Island.

CORNACEÆ (Dogwood Family).

CORNUS (Dogwood).

C. canadensis. (Bunchberry.)
Generally distributed, Vancouver Island.

C. Nuttallii Audubon. (Flowering Dogwood.)
Common. Southern half of Vancouver Island.

C. stolonifera Michx. (Red-osier Dogwood.)
Common. Vancouver Island; Queen Charlotte Islands.

ERICACEÆ (Heath Family).

ALLOTROPA.

A. virgata T. & G. (Striped Allotropa; Devil's Wand.)
Vancouver Island—Alberni; Comox; Wellington; Cowichan; Nanaimo; Malahat; Nitinat.

ANDROMEDA.

A. Polifolia L. (Wild Rosemary.)
Masset, Q.C.I.; Vancouver Island. (Henry's "Flora of Southern British Columbia.")

ARBUTUS.

A. Menziesii Pursh. (Arbutus.)
Common throughout the southern half of Vancouver Island.

ARCTOSTAPHYLOS (Bearberry).

A. columbiana Piper. (Manzanita.)
This is the common northern form that has usually been referred to A. tomentosa Lindl. Generally distributed, southern half of Vancouver Island—Beaufort Range; Cameron Lake; Cowichan; Wellington; Malahat.

ARCTOSTAPHYLOS—*Continued.*

A. media Greene.
Locally distributed, Vancouver Island, *J. M. Macoun.*

A. Uva-ursi (L.) Spreng. (Kinnikinick.)
Common. Queen Charlotte Islands; Vancouver Island.

CASSIOPE (Moss Heather).

C. Mertensiana (Bong.) D. Don. (White-flowered Moss Heather.)
Common in mountains, Vancouver Island; Queen Charlotte Islands, *Osgood.*

C. Stelleriana (Pall.) DC.
Queen Charlotte Islands, *Osgood.*

CHIMAPHILA.

C. Menziesii (R. Br.) Spreng. (Menzie's Wintergreen.)
Generally distributed, southern half of Vancouver Island.

C. umbellata (L.) Nutt. (Pipsissewa; Prince's Pine.)
Common. Southern half of Vancouver Island.

CLADOTHAMNUS.

C. pyrolaeflorus Bong. (Copper Bush.)
Locally distributed in mountains, Queen Charlotte Islands. Vancouver Island—Cowichan Lake; Mount Arrowsmith.

GAULTHERIA.

G. ovatifolia Gray. (Western Teaberry.)
Mount Arrowsmith, Vancouver Island.

G. shallon Pursh. (Salal.)
Common. Queen Charlotte Islands; Vancouver Island.

KALMIA (Sheep Laurel).

K. polifolia Wang. (Swamp Laurel.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.

K. polifolia microphylla (Hook.) Piper.
Generally distributed, Vancouver Island.

LEDUM (Labrador Tea).

L. groenlandicum Oeder.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

LOISELEURIA.

L. procumbens (L.) Desv. (Alpine; Trailing Azalea.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21); Banks Island, *Menzies.*

MENZIESIA.

M. ferruginea Smith.
Queen Charlotte Islands, *Dawson.* Vancouver Island—Renfrew District; Cowichan Lake; Mount Arrowsmith; Henderson Lake.

MONESES.

M. uniflora (L.) Gray. (Single Delight.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island; Holberg; Cameron Lake; Nitinat.

MONOTROPA (Pinesap).

M. uniflora L. (Indian Pipe.)
Common. Vancouver Island.
M. brevis Small. (Pinesap.)
Rare. Beaufort Range, Alberni, V.I., *W. R. Carter.*
M. Hypopitys L. (Pinesap.)
Generally distributed. Queen Charlotte Islands; Vancouver Island.
M. fimbriata Gray. (Pinesap.)
Rare. Mount Arrowsmith, V.I., *Macoun.*

NEWBERRYA.

N. congesta (Gray) Torr.
Rare. Port Renfrew, V.I., August 1st, 1902, *Rosendahl;* Alberni, V.I., *W. R. Carter; J. F. Bledsoe.*

PHYLLODOCE (Mountain Heath).

P. empetriformis (Smith) D. Don. (Pink-flowered Mountain Heath.)
Common in mountains, Vancouver Island.
P. glanduliflora (Hook.) Cov. (Yellowish Mountain Heath.)
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith. Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

PLEURICOSPORA.

P. fimbriolata Gray.
Beaufort Range, above Horne Lake, V.I., *W. R. Carter.*

PTEROSPORA.

P. andromedea Nutt. (Pine-drops.)
Locally distributed, southern half of Vancouver Island—Alberni; Cameron Lake; Malahat; Sidney.

PYROLA (Wintergreen).

P. aphylla Smith. (Leafless Wintergreen.)
Locally distributed, Vancouver Island—Cameron Lake; Mount Benson; Cowichan.
P. bracteata Hook.
Common. Vancouver Island.
P. chlorantha Swartz. (Greenish-flowered Wintergreen.)
Locally distributed, Vancouver Island—Alberni; Cowichan; Comox.
P. elata Nutt. (Bog Wintergreen.)
Generally distributed, Vancouver Island.
P. elliptica Nutt. (Shin Leaf.)
Rare. Vancouver Island. (Henry's "Flora of Southern British Columbia.")
P. picta Smith. (Spotted Pryola.)
Locally distributed, southern half of Vancouver Island—Alberni; Mount Benson; Cowichan; Malahat.
P. picta var. dentata (Smith) Piper.
Locally distributed, Vancouver Island—Alberni; Mount Benson.
P. picta var. integra A. Gray.
Vancouver Island—Alberni, V.I., *Mrs. Cory Wood.*
P. secunda L. (One-sided Wintergreen.)
Common. Queen Charlotte Islands; Vancouver Island.

RHODODENDRON.

R. albiflorum Hook. (White Mountain Rhododendron.)
Generally distributed in mountains, southern half of Vancouver Island.

VACCINIUM (Huckleberry; Blueberry; Bilberry; Cranberry).

V. Alaskaensis Howell.
Rare. Strathcona Park, V.I., *J. M. Macoun.*
V. deliciosum Piper.
Strathcona Park, V.I., *J. M. Macoun.*
V. cæspitosum Michx. (Dwarf Bilberry.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
V. macrophyllum (Hook.) Piper.
Generally distributed, Queen Charlotte Islands; Vancouver Island.
V. occidentale Gray.
Mount Mark, V.I., *Macoun.*
V. ovalifolium Sm. (Tall or Oval-leaved Bilberry.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
x parvifolium.
Locally distributed, Strathcona Park, V.I., *J. M. Macoun.*
V. ovatum Pursh. (Evergreen Huckleberry.)
Locally distributed, coast of Vancouver Island; north point of Texada Island. Occasionally found inland on Vancouver Island—Alberni; Sproat Lake, *W. R. Carter.*
V. Oxycoccus var. intermedium A. Gray. (Bog Cranberry.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
V. parvifolium Smith. (Red Huckleberry.)
Common, Queen Charlotte Islands; Vancouver Island.
V. uliginosum L. (Bog Bilberry.)
Locally distributed, Queen Charlotte Islands (Osgood, "North American Fauna," No. 21); Triangle Island. Vancouver Island—Cowichan.
V. Vitis-Idæa L. (Rock Cranberry.)
Locally distributed, Ucluelet, V.I.; Queen Charlotte Islands.

PLUMBAGINACEÆ (Leadwort Family).

STATICE.

S. Armeria L. (Sea Lavender; Thrift.)
Common along the coast of Vancouver Island.

PRIMULACEÆ (Primrose Family).

ANAGALLIS (Pimpernel).

A. arvensis L. (Poor Man's Weatherglass.)
Locally distributed, Sidney, V.I., *Macoun.*

CENTUNCULUS (Chaffweed).

C. minimus L.
Locally distributed, Vancouver Island—Sproat Lake; Sidney, *Macoun.*

DODECATHEON (Shooting Star).

D. frigidum Hook.
Rare. Mount Arrowsmith, *Macoun;* Strathcona Park, V.I., *J. M. Macoun;* Limestone Island; Queen Charlotte Islands, *Dr. C. F. Newcombe.*
D. latifolium (Hook.) Piper.
Generally distributed, Vancouver Island.

DODECATHEON—*Continued.*

D. pauciflorum (Durand) Greene.
Common. Vancouver Island.
D. tetrandrum Suksdorf.
Uclulet, V.I.
D. viviparum Greene.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

GLAUX (Sea Milkwort).

G. maritima L.
Common. Queen Charlotte Islands; Vancouver Island.

LYSIMACHIA (Loosestrife).

L. terrestris (L.) BSP. (Bulb-bearing Loosestrife.)
Locally distributed, Uclulet, V.I.
L. thyrsiflora L. (Tufted Loosestrife.)
Locally distributed, southern end of Vancouver Island—Cowichan; Beaver Lake.

TRIENTALIS (Chickweed Wintergreen).

T. arctica Fisch. (Northern Star Flower.)
Locally distributed, Tasu Harbour, Queen Charlotte Islands, *Dr. C. F. Newcombe.* Vancouver Island—Renfrew District; Alberni; Uclulet; Cowichan; Mount Finlayson.
T. latifolia Hook. (Star Flower.)
Common. Queen Charlotte Islands; Vancouver Island.

GENTIANACEÆ (Gentian Family).

CENTAURIUM (Centaury).

C. centaurium L.
Locally distributed, Victoria, V.I.

GENTIANA (Gentian).

G. acuta Michx. (Northern Gentian.)
Generally distributed, Queen Charlotte Islands; Vancouver Island.
G. Douglasiana Bong. (Douglas' Gentian.)
Locally distributed, Vancouver Island—Renfrew District, *Rosendahl;* Uclulet, Queen Charlotte Islands, Fort McLoughlin, Milbank Sound, *Dr. Tolmie.*
G. platyphylla Griseb.
Rare. Yakoun Lake, Queen Charlotte Islands, *Dr. C. F. Newcombe.*
G. propinqua Richards.
Cameron Lake, V.I., *W. R. Carter.*
G. sceptrum Griseb. (Swamp Gentian.)
Generally distributed, Vancouver Island.

MENYANTHES (Buckbean).

M. crista-galli Menzies.
Locally distributed, Renfrew District, V.I., *Rosendahl;* Queen Charlotte Islands, *Dr. C. F. Newcombe.*
M. trifoliata L.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

APOCYNACEÆ (Dogbane Family).

APOCYNUM (Dogbane).

A. androsæmifolium L. (Spreading Dogbane.)
Generally distributed, southern half of Vancouver Island.

A. cannabinum L. (Indian Hemp.)
Locally distributed. Cameron Lake, V.I., *W. R. Carter;* Cowichan River.

VINCA (Periwinkle).

V. minor L.
Garden escape, Victoria, V.I.

CONVOLVULACEÆ (Morning Glory Family).

CONVOLVULUS (Bindweed).

C. arvensis L. (Small Bindweed.)
Locally distributed, Vancouver Island—Victoria; Nanaimo; Cowichan.

C. sepium L. (Hedge or Great Bindweed.)
Locally distributed, Vancouver Island—Victoria; Nanaimo.

C. Soldanella L.
Locally distributed, Savary Island, Dawson; Pachena Bay, V.I.

CUSCUTA (Dodder).

C. arvensis Beyrich.
Locally distributed, Vancouver Island—Cobble Hill; Cowichan.

C. Epithymum Murr.
Locally distributed, Mayne Island, *Macoun.*

C. salina Engelm. (Salt-marsh Dodder.)
Locally distributed, Vancouver Island—Alberni; Victoria.

C. squamigera Piper.
Locally distributed, Sidney, V.I., Macoun.

POLEMONIACEÆ (Phlox Family).

COLLOMIA.

C. grandiflora Dougl.
Generally distributed, southern half of Vancouver Island—Comox; Alberni; Parksville; Cowichan; Victoria.

C. heterophylla Hook.
Common. Southern half of Vancouver Island.

C. linearis (Nutt.) Gray. (Narrow-leaved Phlox.)
Southern half of Vancouver Island; Mount Benson; Wellington.

GILIA.

G. achilleæfolia Benth.
Locally distributed, Vancouver Island—Shawnigan.

G. bicolor (Nutt.) Piper.
Common. Southern half of Vancouver Island.

G. capitata Hook.
Locally distributed, southern end of Vancouver Island—Victoria; Shawnigan Lake; Malahat.

G. gracilis Dougl.
Common. Southern half of Vancouver Island.

G. intertexta Steud.
Mount Douglas ("Cedar Hill"), V.I.

G. squarrosa (Esch.) H. & A.
Locally distributed, southern end of Vancouver Island—Cowichan; Victoria.

PHLOX.

P. diffusa Hook. (Douglas' Phlox.)
Common in mountains, Vancouver Island.

POLEMONIUM (Greek Valerian).

P. elegans Greene.
Locally distributed, Duncan, V.I., *Mrs. Hadwen;* Queen Charlotte Islands, *Dr. C. F. Newcombe.*
P. micranthum Benth.
Rare. Near Victoria, V.I., *Fletcher.*

HYDROPHYLLACEÆ (Waterleaf Family).

HYDROPHYLLUM (Waterleaf).

H. tenuipes Heller.
Locally distributed, Vancouver Island—Cameron Lake; Goldstream; Sooke River.

NEMOPHILA (Grove-lover).

N. micrantha Eastwood.
Locally distributed, Vancouver Island—Victoria; Cameron Lake.
N. parviflora Dougl.
Common. Southern half of Vancouver Island.
N. pedunculata Dougl.
Locally distributed, Vancouver Island—Cowichan (Glendenning's List, 1918); Observatory Hill.
N. sepulta Parish.
Locally distributed, southern half of Vancouver Island—Nanoose; Cowichan; Victoria.

PHACELIA.

P. heterophylla Pursh.
Locally distributed, Cowichan Lake, V.I.; Mount Arrowsmith, V.I.
P. hispida Gray.
Rare. Nanaimo, V.I., *Macoun;* introduced from California.
P. linearis (Pursh.) Holzinger.
Locally distributed, Galiano Island, *Macoun.*
P. sericea Gray.
Rare. Vancouver Island—Mount Arrowsmith, *Macoun.*

ROMANZOFFIA (Mist Maidens).

R. sitchensis Bong.
Locally distributed, Queen Charlotte Islands, *Dr. C. F. Newcombe.* Vancouver Island—Cameron Lake; Mount Arrowsmith.
R. unalaschkensis Cham.
Locally distributed, Albert Head, V.I., *Dr. C. F. Newcombe;* Ucluelet, V.I., *Macoun.*

BORAGINACEÆ (Borage Family).

ALLOCARYA.

A. californica (DC.) Greene.
Generally distributed, southern half of Vancouver Island—Alberni; Nanaimo; Cowichan; Saanich; Victoria.

ALLOCARYA—*Continued.*

A. divaricata Piper sp. nov.
Type, U.S. National Herbarium, collected on exposed rocks on the seashore, Victoria, V.I., by Wm. Palmer. Probably taking the place of what we have known as A. plebeja (Cham.) Greene, which is an Alaskan species.

A. media Piper sp. nov.
Generally distributed, southern half of Vancouver Island—Alberni; Cowichan Lake, *Rosendahl;* Victoria. Type, U.S. National Herbarium, collected Port Angeles, Wash. This appears without doubt our common form. Under a recent study of the Allocarya by Professor C. V. Piper, A. chorisiana (Cham.) Greene is eliminated from our list, and the specimens from Mount Douglas ("Cedar Hill"), Victoria, V.I., collected by *Macoun* are referred to here as A. media.

A. Scouleri (DC.) H. & A.
Locally distributed, southern half of Vancouver Island—Northfield; Nanaimo.

AMSINCKIA.

A. barbata Greene.
Locally distributed, Cameron Lake, V.I.

A. intermedia F. & M.
Generally distributed, Vancouver Island.

A. lycopsoides Lehm.
Locally distributed, Vancouver Island—Parksville; Cowichan; Sidney; Texada Island. Queen Charlotte Islands, *Dr. C. F. Newcombe.*

BORAGO.

B. officinalis L. (Borage.)
Rare. William Head, Victoria, V.I., *Miss Barbara Cox.*

CRYPTANTHA.

C. ambigua (A. Gray) Greene.
Nanaimo, V.I., *Macoun.*

LAPPULA (Stickseed).

L. cupulata (A. Gray) Rydb.
Vicinity of Victoria, V.I., Fletcher. (Macoun's "Catalogue of Plants.")

L. echinata Gil.
Locally distributed, Cowichan, V.I.

L. occidentalis (Wats.) Rydb.
Locally distributed, Victoria, V.I., *Macoun.*

MERTENSIA (Lungwort).

M. maritima (L.) S. F. Gray.
Queen Charlotte Islands, *Dawson.*

MYOSOTIS (Forget-me-not; Scorpion Grass).

M. arvensis (L.) Hill. (Field Forget-me-not.)
Generally distributed, southern half of Vancouver Island—Alberni; Comox; Cowichan; Victoria.

M. laxa Lehm. (Small Forget-me-not.)
Generally distributed, southern half of Vancouver Island—Alberni; Nanoose; Nanaimo; Elk Lake.

M. macrosperma (Engelm.) Fernald. (White Forget-me-not.)
Rare. Vicinity of Victoria, V.I., *Macoun;* Mount Douglas ("Cedar Hill"), V.I., *Fletcher;* Cowichan River, V.I., *Glendenning.*

MYOSOTIS—*Continued.*

M. scorpioides L. (Forget-me-not.)
Alberni, V.I.

M. versicolor (Pers.) Sm. (Yellow and Blue Scorpion Grass.)
Generally distributed, southern end of Vancouver Island—Sidney; Esquimalt, Mayne Island.

VERBENACEÆ (Vervain Family).

VERBENA (Vervain).

V. hastata L. (Blue Vervain; Wild Hyssop.)
Rare. Vancouver Island—Victoria; Alberni, *Macoun.*

LABIATÆ (Mint Family).

LAMIUM.

L. amplexicaule L. (Henbit; Dead Nettle.)
Locally distributed, Comox and Saanich, V.I.

LYCOPUS (Bugle Weed).

L. americanus Muhl. (Cut-leaved Water Horehound.)
Common. Vancouver Island.

L. uniflorus Michx. (Northern Bugle Weed.)
Generally distributed, Vancouver Island.

MARRUBIUM (Horehound.)

M. vulgare L. (White or Common Horehound.)
Locally distributed, southern half of Vancouver Island—Wellington; Victoria.

MENTHA (Mint).

M. arvensis L. var. canadensis (L.) Briquet. (Field Mint.)
Common. Vancouver Island.

M. canadensis L. var. glabrata Benth.
Generally distributed, Vancouver Island—Sproat Lake, *Macoun.*
var. lanata Piper. (Wild Mint.)
Common. Vancouver Island.

M. piperita L. (Peppermint.)
Locally distributed, Sidney and Comox, V.I., *Macoun.*

M. spicata L. (Spearmint.)
Vancouver Island—Sidney, *Macoun.*

M. viridis L.
Locally distributed, Vancouver Island—Victoria.

MICROMERIA.

M. Chamissonis (Benth.) Greene. (Yerba Buena.)
Common. Vancouver Island.

NEPETA (Cat Mint).

N. Cataria L. (Catnip.)
Locally distributed, Vancouver Island—Cowichan Bay; Victoria.

N. hederacea (L.) Trev. (Ground Ivy.)
Locally distributed, Vancouver Island—Sidney; Wellington; Victoria.

PRUNELLA (Self-heal).

P. vulgaris L. (Self-heal.)
Common. Vancouver Island, Queen Charlotte Islands.

PRUNELLA—*Continued.*

forma alba.
Locally distributed. Alberni and Fitzgerald, V.I., *W. R. Carter.*
forma erubescens J. K. Henry.
Locally distributed, Cameron Lake, V.I.

SCUTELLARIA (Skullcap).

S. angustifolia Pursh. (Narrow-leaved Skullcap.)
Victoria, V.I., *Macoun.*
S. galericulata L. (Marsh Skullcap.)
Common. Vancouver Island.
S. lateriflora L. (Mad Dog; Blue Skullcap.)
Locally distributed. Vancouver Island—Alberni; Cowichan; Haslam Creek.

STACHYS (Hedge Nettle).

S. ciliata Dougl.
Common. Vancouver Island.
S. ciliata var. pubens (Gray) Heller.
Locally distributed, east coast of Queen Charlotte Islands, *Dawson.*
Vancouver Island—Ucluelet.

SOLANACEÆ (Potato Family).

SOLANUM (Nightshade).

S. nigrum L. (Deadly Nightshade.)
Locally distributed. Vancouver Island—Wellington; Victoria.
S. nigrum villosum Lam.
Locally distributed. Vancouver Island—Comox; Victoria.

SCROPHULARIACEÆ (Figwort Family).

ANTIRRHINUM (Snapdragon).

A. Orontium L. (Lesser Snapdragon.)
Garden escape, Vancouver Island—Saanich.

CASTILLEJA (Scarlet Paint-brush).

C. angustifolia Nutt. var. Bradburii Fernald.
Generally distributed, southern half of Vancouver Island—Alberni; Nootka; Wellington; Saanich.
C. Dixoni Fernald.
Locally distributed. Alberni, V.I.; Triangle Island.
C. levisecta Greenman. (Yellow Paint Brush.)
Locally distributed, southern end of Vancouver Island—Sidney; Victoria.
C. miniata Dougl. (Red Paint Brush.)
Common. Vancouver Island; Queen Charlotte Islands.
C. pallida (L.) Spreng. (White Paint Brush.)
Locally distributed, Queen Charlotte Islands, *Dawson.* Vancouver Island—Alberni; Uchucklesit.
C. parviflora Bong.
Locally distributed, Queen Charlotte Islands, *Dawson.*
C. rhexifolia Rydb.
Locally distributed, Cowichan Lake, V.I.

CHELONE (Turtlehead).

C. nemorosa Dougl.
Locally distributed, Vancouver Island—Renfrew, *Rosendahl;* Cameron Lake; Cowichan Lake.

COLLINSIA (Blue-eyed Mary; Innocence).

C. grandiflora Dougl.
Common. Vancouver Island.
var. pusilla Gray.
Common. Vancouver Island.
C. tenella Dougl.
Generally distributed, Vancouver Island; Queen Charlotte Islands. *Osgood.*

DIGITALIS (Foxglove).

D. purpurea L. (Purple Foxglove.)
Locally distributed, Vancouver Island—Alberni.

GRATIOLA (Hedge Hyssop).

G. ebracteata Benth.
Locally distributed, Vancouver Island—Sproat River; Alberni; Victoria.
G. virginiana L. (Clammy Hedge Hyssop.)
Locally distributed, Vancouver Island—Sproat Lake; Alberni; Comox; Cowichan; Victoria.

LIMOSELLA (Mudwort).

L. tenuifolia (Wolf) Pers.
Locally distributed, Alberni, V.I.; Comox, V.I.

LINARIA (Toadflax).

L. canadensis (L.) Dumont. (Wild Toadflax.)
Rare. Departure Bay, V.I.; Esquimalt, V.I.
L. Cymbalaria L.
Locally distributed, Vancouver Island—garden escape, Nanaimo.
L. vulgaris Hill. (Butter & Eggs.)
Locally distributed, Vancouver Island—Alberni; Cameron Lake; Nanaimo.

MELAMPYRUM (Cow Wheat).

M. lineare Lam. (Narrow-leaved Cow Wheat.)
Locally distributed, Vancouver Island—Cameron Lake; Englishman's River.

MIMULUS (Monkey Flower).

M. alpinus (Gray) Piper. (Alpine Monkey Flower.)
Locally distributed, Mount Arrowsmith, V.I., *Kermode* and *Carter.*
M. alsinoides Dougl.
Common. Vancouver Island.
M. grandiflorus Howell.
Locally distributed, Sidney, V.I., *Macoun.*
M. Langsdorffii Donn.
Common. Vancouver Island; Queen Charlotte Islands.
var. platyphyllus Greene. (Langsdorff's Yellow Monkey Flower.) Nootka, V.I.; Ucluelet, V.I.
M. Lewisii Pursh. (Red Monkey Flower.)
Locally distributed, Cowichan Lake, V.I.; Henderson Lake, V.I.
M. moschatus Dougl. (Musk Flower.)
Generally distributed, Vancouver Island.
M. nasutus Greene.
Common. Vancouver Island.
M. pilosus (Benth.) Wats.
Locally distributed, Swan Lake, V.I.

ORTHOCARPUS (Lesser Paint-brush).

O. attenuatus Gray.
Locally distributed, southern end of Vancouver Island, vicinity of Victoria.

O. bracteosus Benth.
Locally distributed, southern end of Vancouver Island—Victoria; Sidney.

O. castilleoides Benth.
Locally distributed, southern half of Vancouver Island—Alberni; Victoria; Sidney.

O. erianthus Benth.
Locally distributed, southern end of Vancouver Island, vicinity of Victoria.

O. faucibarbatus Gray.
Locally distributed, Vancouver Island—Victoria.

O. hispidus Benth.
Locally distributed, southern end of Vancouver Island—Uplands, Victoria, *Macoun*.

O. pusillus Benth.
Generally distributed, southern half of Vancouver Island—Alberni; Wellington; Cowichan; Victoria.

PEDICULARIS (Lousewort).

P. lanata Willd.
Locally distributed, Queen Charlotte Islands.

P. pedicellata Bunge.
Locally distributed, Queen Charlotte Islands. "Appears to be identical with P. ornithorhyncha Benth." (C. V. Piper.)

P. ornithorhyncha Benth.
Mount Arrowsmith, V.I., *W. R. Carter*. (Type locality, Mount Rainier.)

P. racemosa Hook. (White Lousewort.)
Generally distributed, Vancouver Island.

PENTSTEMON (Beard-tongue).

P. diffusus Dougl.
Locally distributed, southern half of Vancouver Island—Beaufort Range; Alberni; Cameron Lake; Cowichan Lake.

P. Menziesii Hook.
Common in mountains, Vancouver Island—near shore, Nootka Island and Effingham Inlet, Barkley Sound.

RHINANTHUS (Yellow Rattle).

R. Crista-galli L.
Rare. Vancouver Island—Union Bay; Cedar Hill, *Macoun*. Common. Masset, Queen Charlotte Islands, *Dawson*.

SCROPHULARIA (Figwort).

S. californica Cham.
Locally distributed, west coast of Vancouver Island—Uchucklesit; Clayoquot; Alberni.

VERBASCUM (Mullein).

V. *Blattaria* L. (Moth Mullein.)
Comox, V.I., *W. R. Anderson*.

VERONICA (Speedwell).

V. alpina L. (Alpine Speedwell.)
Common in mountains, Queen Charlotte Islands; Vancouver Island.

VERONICA—*Continued.*

V. americana Schwein. (Brooklime.)
Common. Queen Charlotte Islands; Vancouver Island.
V. *arvensis* L. (Corn Speedwell.)
Common. Vancouver Island.
V. peregrina L. (Neckweed.)
Generally distributed. Vancouver Island.
V. serpyllifolia L. (Thyme-leaved Speedwell.)
Common. Vancouver Island.
V. scutellata L. (Marsh Speedwell.)
Common. Vancouver Island.
var. villosa Schum.
Locally distributed. Sproat Lake, V.I., *Henry.*
V. *Tournefortii* C. C. Gmel.
Locally distributed, southern end of Vancouver Island—Saanichton, *Macoun*; Victoria.

LENTIBULARIACEÆ (Bladderwort Family).

PINGUICULA (Butterwort).

P. vulgaris L. (Common Butterwort or Bog Violet.)
Generally distributed, chiefly in wet mountain marshes in the central and northern portions of Vancouver Island. On Nootka Island it appears almost at sea-level. Queen Charlotte Islands.

UTRICULARIA (Bladderwort).

U. intermedia Hayne. (Flat-leaved Bladderwort.)
Locally distributed. Ucluelet, V.I.
U. minor L. (Lesser Bladderwort.)
Locally distributed. Somenos Lake, V.I.
U. occidentalis A. Gray.
Locally distributed. Ucluelet, V.I.
U. vulgaris L. (Greater Bladderwort.)
Locally distributed. Prospect Lake, V.I.; Shawnigan Lake, V.I.

OROBANCHACEÆ (Broom-rape Family).

BOSCHNIAKIA (Poque).

B. Hookeri Walp.
Locally distributed. Vancouver Island—Alberni; Comox; Cameron Lake; Nanoose; Cowichan; Shawnigan Lake; Mount Finlayson.

OROBANCHE (Broom-rape; Cancer-root).

O. comosa Hook.
Locally distributed, southern half of Vancouver Island—Wellington; Sidney; Victoria.
O. fasciculata Nutt. (Clustered Cancer-root.)
Rare. Menzies Creek; Cowichan, *Glendenning;* Observatory Hill, V.I.
O. ludoviciana Nutt. (Louisiana Broom-rape.)
Victoria, V.I., *Cowley.*
O. pinorum Gey.
Rare. Cowichan River, V.I., *Glendenning.*
O. uniflora L. (One-flowered Cancer Root.)
Locally distributed, southern half of Vancouver Island—Sproat Lake Falls, *Mrs. Cory Wood;* Cowichan; Victoria.

PLANTAGINACEÆ (Plantain Family).

PLANTAGO (Plantain).

P. Bigelovii Gray.
Locally distributed, southern end of Vancouver Island—Sidney; Victoria.
P. lanceolata L. (Rib Grass.)
Common. Vancouver Island.
P. macrocarpa C. & S.
Common. Vancouver Island; Queen Charlotte Islands.
P. major L. (Common Plantain.)
Common. Vancouver Island; Queen Charlotte Islands.
var. minima Dene.
Wellington, V.I.; Victoria, V.I.
P. maritima L. (Seaside Plantain.)
Common. Queen Charlotte Islands; Vancouver Island.

RUBIACEÆ (Madder Family).

GALIUM (Bedstraw; Cleavers).

G. Aparine L. (Cleavers.)
Common. Vancouver Island.
G. Aparine var. Vaillantii Koch.
Port Renfrew, V.I.; Triangle Island, *Dr. C. F. Newcombe.*
G. boreale L. (Northern Bedstraw.)
Generally distributed. Vancouver Island.
G. kamtschaticum (Stell.) var. oreganum Britton. (Northern Wild Liquorice.)
Locally distributed, Cowichan Lake, V.I.
G. trifidum L. (Small Bedstraw.)
Common. Vancouver Island.
var. pacificum Wiegand.
Common. Vancouver Island.
G. triflorum Michx. (Sweet-scented Bedstraw.)
Common. Vancouver Island. Queen Charlotte Islands.

SHERARDIA (Spurwort).

S. arvensis L.
Locally distributed, Victoria, Sidney, V.I.

CAPRIFOLIACEÆ (Honeysuckle Family).

LINNÆA (Twinflower).

L. borealis L. var. americana (Forbes) Rehder. (American Twinflower.)
Common. Vancouver Island; Queen Charlotte Islands.

LONICERA (Honeysuckle).

L. ciliosa (Pursh.) Poir. (Orange Honeysuckle.)
Common. Vancouver Island.
L. hispidula Dougl. (Purple Honeysuckle.)
Locally distributed, southern half of Vancouver Island—Nanoose; Departure Bay; Malahat; Sidney.
L. involucrata (Richards) Banks. (Involucred Fly Honeysuckle.)
Common. Queen Charlotte Islands; Vancouver Island.

SAMBUCUS (Elder).

S. callicarpa Greene. (Red-fruited Elder.)
Common. Queen Charlotte Islands; Vancouver Island.

SAMBUCUS—*Continued.*

S. glauca Nutt. (Tree Elder; Blue-fruited Elder.)
Locally distributed, southern half of Vancouver Island—Alberni; Nanaimo; Duncan.

SYMPHORICARPOS (Snow Berry; Wax Berry).

L. racemosus Michx.
Common. Queen Charlotte Islands; Vancouver Island.
var. pauciflorus Robbins.
Common. Vancouver Island.

VIBURNUM (Arrow-wood).

V. pauciflorum Pylaie. (Few-flowered Cranberry Tree.)
Locally distributed. Queen Charlotte Islands (Osgood, "North American Fauna," No. 21). Vancouver Island—Cowichan Lake; Henderson Lake.

VALERIANACEÆ (Valerian Family).

VALERIANA (Valerian).

V. septentrionalis Rydb.
Henderson Lake, V.I., *W. A. Newcombe.*
V. sitchensis Bong.
Generally distributed, Queen Charlotte Islands; Vancouver Island.
var. Scouleri (Rydb.) Piper.
Locally distributed. Duncan, V.I.

VALERIANELLA (Corn Salad; Lamb's Lettuce).

V. congesta Lindl. (Sea Blush.)
Common. Vancouver Island.
V. *Locusta* (L.) Betcke.
Victoria, V.I.
V. samolifolia (DC) Gray.
Generally distributed. Queen Charlotte Islands. Vancouver Island—Alberni; Sahtlam.

CUCURBITACEÆ (Gourd Family).

ECHINOCYSTIS.

E. oregana (Torr & Gray) Cogn. (Western Balsam Apple.)
Rare. Saanich, V.I., *J. R. Anderson; Macoun.*

CAMPANULACEÆ (Bluebell Family).

CAMPANULA.

C. Langsdorffiana Fisch.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)
C. lasiocarpa Cham.
Queen Charlotte Islands. (Henry's "Flora of Southern British Columbia.")
C. rotundifolia L. (Harebell.)
Common. Vancouver Island.
Var. alaskana Gray. (Harebell.)
Tlell River, Queen Charlotte Islands, *Dawson;* Mount Mark, V.I., *Macoun.*
C. Scouleri Hook. (Scouler's Harebell.)
Common. Vancouver Island.

SPECULARIA.

S. perfoliata (L.) A. DC. (Venus' Looking-glass.)
Rare. Southern end of Vancouver Island—Maple Bay; Victoria.

HETEROCODON.

H. rariflorum Nutt.
Rare. Vicinity of Victoria, V.I., *Cowley*.

LOBELIACEÆ.

LOBELIA.

L. Dortmanna L. (Water Lobelia.)
Locally distributed, southern half of Vancouver Island—Sproat Lake; Cameron Lake; Shawnigan Lake.

COMPOSITÆ (Composite Family).

ACHILLEA (Yarrow).

A. borealis Bong. (Northern Yarrow.)
Locally distributed, Victoria, V.I.; Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)
A. millefolium L. (Milfoil; Yarrow.)
Vancouver Island; Queen Charlotte Islands.
A. californica Pollard.
Rare. Saanich Arm, V.I., *J. R. Anderson*.

ADENOCAULON (Silver-green).

A. bicolor Hook.
Common throughout settled and cleared areas, Vancouver Island.

AGOSERIS (False Dandelion).

A. aurantiaca (Hook.) Greene.
Locally distributed in mountains, Vancouver Island—Mount Arrowsmith.
A. glauca (Pursh.) Stend. (Large-flowered Fall Dandelion.)
Rare. (Mount Arrowsmith, V.I.), *Kermode* and *Carter*.
A. heterophylla (Nutt.) Greene.
Locally distributed, Vancouver Island—Victoria, *Fletcher*; Skirt Mount Sahtlam; Nanoose.
A. laciniata (Nutt.) Greene.
Vancouver Island—Alberni; Malahat; Sidney; Victoria.
var. grandiflora Nutt.
Locally distributed, Vancouver Island—Cameron Lake; Qualicum; Nanaimo; Duncan.

AMBROSIA (Ragweed).

A. *trifida* L. (Great Hawkweed.)
Locally distributed, Victoria, V.I.

ANAPHALIS (Pearly Everlasting).

A. margaritacea (L.) B. & H. (Pearly or Large-flowered Everlasting.)
Common. Vancouver Island.
var. occidentalis Greene.
Common. Vancouver Island.
var. subalpina (Gray) Rydb.
Elk Lake, V.I.

ANTENNARIA (Everlasting).

A. chlorantha Greene.
Locally distributed, Vancouver Island—Mount Benson; Strathcona Park.

A. ei'geroides Greene.
Locally distributed, Mount Benson, V.I.

A. eximia Greene.
Locally distributed, Mount Benson, V.I.

A. Howellii Greene. (Pussy's Toes.)
Common, Vancouver Island.

A. media Greene.
Locally distributed, Mount Arrowsmith, V.I.

A. racemosa Hook.
Locally distributed, Strathcona Park, V.I., *J. M. Macoun.*

A. rosea Greene.
Rare. Mount Arrowsmith, V.I., *Kermode* and *Carter.*

ANTHEMIS (Chamomile).

A. arvensis L. (Field Chamomile.)
Common, Vancouver Island.

A. Cotula L. (May-weed; Fetid Chamomile.)
Common, Vancouver Island.

APARGIDIUM.

A. boreale (Bong.) T. & G.
Locally distributed, Ucluelet, V.I.; Queen Charlotte Islands and Banks Island, *Dr. C. F. Newcombe.*

ARCTIUM (Burdock).

A. Lappa L. (Great Burdock.)
Common, Vancouver Island.

A. minus Bernh. (Common Burdock.)
Common, Vancouver Island.

ARGEMONE.

A. mexicana Linn.
Rare. Victoria, *J. R. Anderson.*

ARNICA.

A. amplexicaulis Nutt.
Vancouver Island—Mount Arrowsmith; Cowichan River.

A. aspera Greene.
Vancouver Island—Gordon River; Cowichan Lake.

A. betonicefolia Greene.
Locally distributed, Cowichan Lake, V.I., *J. R. Anderson;* Henderson Lake.

A. Chamissonis Less.
Locally distributed, southern half of Vancouver Island—Comox; Koksilah.

A. cordifolia Hook. (Heart-leaved Arnica.)
Rare. Mount Finlayson, V.I., *Dr. C. F. Newcombe.*

A. gracilis Rydb.
Mount Benson, V.I., *Macoun.*

A. latifolia Bong.
Common in mountains, Vancouver Island—Mount Arrowsmith; Strathcona Park; Chemainus River; Cowichan Lake.

A. Macounii Greene.
Locally distributed, Comox, V.I., *Macoun;* Alberni Canal, V.I.

ARNICA—*Continued.*

A. mollis Hook. (Hairy Arnica.)
Locally distributed, Yakoun Lake, Q.C.I., *Dr. C. F. Newcombe;* Alberni; Henderson Lake; Qualicum Falls; Quatsino, V.I.

ARTEMISIA (Sagebrush; Wormwood).

A. *Absinthium* L. (Common wormwood; Absinth.)
Locally distributed, Vancouver Island—Victoria; North Saanich.

A. canadensis Michx. (Canada Wormwood.)
Locally distributed, Comox Spit, V.I., *Macoun;* Victoria, V.I.

A. ludoviciana Nutt. (Dark-leaved Mugwort.)
Locally distributed, Vancouver Island—Cowichan, *Glendenning;* Departure Bay.

A. pacifica Nutt.
Victoria, V.I.

A. Suksdorfii Piper.
Generally distributed, Vancouver Island.

A. *vulgaris* L. (Common Mugwort.)
Locally distributed, Victoria, V.I.

ASTER (Aster).

A. chilensis (Nees.) DC.
Generally distributed, Vancouver Island.

A. Curtisii Gray.
Locally distributed, Victoria, V.I.

A. Douglasii Lindl.
Common, Vancouver Island.

A. Estonii (Gray) Howell.
Locally distributed, Elk Lake, V.I.

A. Engelmannii Gray.
Locally distributed, Colwood, V.I.

A. foliaceus frondens Gray. (Leafy-bracted Aster.)
Locally distributed, Yakoun Lake, Queen Charlotte Islands, *Dr. C. F. Newcombe.* Vancouver Island—Cameron Lake.

A. microlonchus Greene.
Locally distributed, Victoria, V.I.

A. modestus Lindl. (Great Northern Aster.)
Generally distributed, southern half of Vancouver Island—Alberni; Wellington.

A. occidentalis Nutt.
Locally distributed, Nanaimo River, V.I., *J.R. Anderson.*
var. intermedius Gray.
Locally distributed, Vancouver Island—Elk Lake.

A. oregonus Nutt.
Locally distributed, Sidney, V.I., *Macoun.*

A. radulinus.
Locally distributed, Vancouver Island—Victoria; Horne Lake; Mount Finlayson, *Macoun.*

BAEBIA.

B. maritima Gray.
Barkley Sound; Solander Island; Triangle Island, *Dr. C. F. Newcombe.*

BALSAMORHIZA (Balsam Root).

B. deltoidea Nutt.
Locally distributed, southern half of Vancouver Island—Cowichan; Cedar Hill; Victoria, *Macoun.* Valdes Island, *Dawson.*

BELLIS (Daisy).

B. perennis L. (Common Daisy.)
Common. Vancouver Island.

BIDENS (Bur Marigold).

B. amplissima Greene.
Locally distributed. Vancouver Island—Alberni.
B. Marcuuii Greene.
Locally distributed, southern half of Vancouver Island.

BUDDIA.

Buddia.
Experimental Farm, Sidney, V.I.

CALENDULA.

C. arvensis L.
Victoria, B.C.

CENTAUREA (Star Thistle).

C. Calcitrapa L. (Star Thistle.)
Locally distributed. Vancouver Island—Nanaimo.
C. Cyanus L. (Corn Flower; Bachelor's Button.)
Locally distributed. Vancouver Island—Comox; Sidney; Cameron Lake.
C. Jacea L.
Locally distributed. Vancouver Island—Victoria.
C. melitensis L. (Tocalote.)
Locally distributed. Vancouver Island—Nanaimo; Esquimalt.
C. paniculata L.
Locally distributed. Vancouver Island—Victoria.

CHRYSANTHEMUM.

C. Leucanthemum L. (Ox-eye Daisy.)
Common. Vancouver Island.
C. Parthenium (L.) Bernh.
Common. Vancouver Island.

CICHORIUM (Chicory).

C. Intybus L. (Chicory; Blue Sailors.)
Generally distributed. Vancouver Island.

CIRSIUM (Thistle).

C. arvense (L.) Scop. (Canada Thistle.)
Common. Vancouver Island.
C. edule Nutt. (Edible Thistle.)
Common. Vancouver Island; Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)
C. lanceolatum (L.) Scop. (Common Bur or Spear Thistle.)
Generally distributed. Vancouver Island.

COTULA (Mud Dock).

C. coronopifolia L.
Locally distributed. Vancouver Island—Nanaimo; Nanoose; Sidney.

CREPIS (Hawk's-beard).

C. biennis L. (Rough Hawk's-beard.)
Common. Vancouver Island.

CREPIS—*Continued.*

C. capillaris (L.) Wallr. (Smooth Hawk's-beard.)
Common. Vancouver Island.

C. virens L.
Chemainus and Cowichan, V.I., *Macoun.*

CROCIDIUM.

C. multicaule Hook.
Locally distributed, near Victoria, V.I. *Macoun.*

ERIGERON (Fleabane).

E. canadensis L. (Horse-weed.)
Common. Vancouver Island.

E. compositus Pursh.
Rare. Mount Arrowsmith, V.I., *Cunningham.*

E. philadelphicus L. (Michaelmas Daisy.)
Common. Vancouver Island.

E. peregrinus (Pursh.) Greene.
Locally distributed, Queen Charlotte Islands. Vancouver Island—Mount Arrowsmith. *Macoun.*

E. ramosus septentrionalis (Fernald & Wiegand). (Daisy Fleabane.)
Locally distributed. Vancouver Island—Alberni, *Macoun;* Chemainus River.

E. salsuginosus (Richards) A. Gray.
Mount Arrowsmith, V.I.; Chantle Village, west coast, Q.C.I.

ERIOPHYLLUM (Woolly Sunflower).

E. Cusickii Eastman.
Saltlam, V.I., *E. M. Anderson.*

E. lanatum (Pursh.) Forbes.
Common. Vancouver Island. A rayless form plentifully collected in Victoria (Henry) may belong to this species.

E. lanatum var. leucophyllum DC.
Near Victoria, V.I. (Macoun and Fletcher). (Macoun's "Catalogue of Plants.")

EUTHAMIA.

E. condensata.
Locally distributed. Strathcona Park, V.I., *J. M. Macoun.*

E. Macounii Greene.
Locally distributed. Victoria, V.I., *Macoun.*

FRANSERIA (Sandbur).

F. bipinnatifida Nutt.
Locally distributed, Queen Charlotte Islands, *Dawson.* Vancouver Island—Cape Lazo; Victoria; Long Beach.

F. Chamissonis (Less.) DC.
Locally distributed on the ocean coast of Vancouver Island to California, Colnett, *Macoun.*

GRAPHALIUM (Cudweed).

G. microcephalum Nutt.
Common. Southern half of Vancouver Island—Alberni; Comox; Cameron Lake; Beaver Lake; Pender Island.

G. palustre Nutt. (Western Marsh Cudweed.)
Common. Vancouver Island.

GNAPHALIUM—*Continued.*

G. purpureum L.
Common. Vancouver Island.
G. Sprengelii Hook. & Arn.
Victoria, V.I., Fletcher. (Macoun's "Catalogue of Plants.")
G. uliginosum (L.) (Low Cudweed; Waterwort.)
Common. Vancouver Island.

GRINDELIA (Gum-weed).

G. Andersonii Piper.
Locally distributed, Saanich Inlet, V.I., *J. R. Anderson.*
G. collina J. K. Henry.
Vancouver Island. (Henry's "Flora of Southern British Columbia.")
G. integrifolia DC.
Generally distributed, southern half of Vancouver Island.
G. lanata Greene.
Locally distributed, Vancouver Island—Victoria.
G. nana Nutt.
Locally distributed, Vancouver Island—Cowichan. (Glendenning's List, 1918.)
G. oregana Gray. ? G. stricta DC.
Generally distributed, southern half of Vancouver Island. Our common form on the high sea-beaches. Masset, Q.C.I.
G. oregana Wilkesiana Piper.
Queen Charlotte Islands, Osgood.
G. squarrosa (Pursh.) Duval. (Broad-leaved Gum-weed.)
Rare. A single specimen, Esquimalt & Nanaimo Railway, V.I. The identification of our Grindelia is somewhat uncertain, but must remain as such until a revision of the Genus has been completed.

HELENIUM (Sneezeweed).

H. autumnale L. (Swamp Sunflower.)
Locally distributed, southern end of Vancouver Island—Victoria.

HELIANTHUS (Sunflower).

H. Maximiliani Schrad.
Locally distributed, Vancouver Island—Victoria, *Macoun.*
H. prionchris Nutt. (Prairie Sunflower.)
Locally distributed, Vancouver Island—Nanaimo, *Macoun.*

HIERACIUM (Hawkweed).

H. albiflorum Hook.
Common. Queen Charlotte Islands; Vancouver Island.
H. canadense Michx. (Canada Hawkweed.)
Victoria, V.I., *Macoun.*
H. gracile Hook. (Alpine Hawkweed.)
Common in mountains, Vancouver Island.
H. Scouleri Hook.
Departure Bay, V.I. (Meehan). (Macoun's "Catalogue of Plants.")
H. triste Cham.
Dawson Harbour, west coast, Queen Charlotte Islands, *Dr. C. F. Newcombe.*

HYPOCHAERIS (Cat's-ear).

H. glabra L.
Common. Vancouver Island.

HYPOCHÆRIS—*Continued.*

H. radicata L.
Common. Vancouver Island.

JAUMEA.

J. carnosa (Less.) Gray.
In salt marshes along the sea-shore Vancouver Island to California. (Piper and Beattie's "Flora of the Northwest Coast.")

LACTUCA (Lettuce).

L. muralis L.
Locally distributed. Waugh Creek, V.I., *J. R. Anderson;* Shawnigan Lake, V.I.

L. scariola L. (Prickly Lettuce.)
Common. Vancouver Island.

L. spicata (Lam.) Hitch. (Tall Blue Lettuce.)
Generally distributed, southern half of Vancouver Island—Comox; Alberni; Wellington; Elk Lake.

LAMPSANA (Nipplewort).

L. communis L.
Locally distributed, southern end of Vancouver Island—Victoria; North Saanich.

LEONTODON (Fall Dandelion; Hawkbit).

L. hastilis L. var. vulgaris Koch. (Common Hawkbit.)
Generally distributed, Vancouver Island.

L. nudicaulis (L.) Banks. (Rough or Hairy Hawkbit.)
Generally distributed, Vancouver Island.

LUINA.

L. hypoleuca Benth.
Generally distributed, southern half of Vancouver Island—Great Central Lake; Koksilah; Sooke River; Cameron Lake.

MATRICARIA (Pineapple-weed).

M. suaveolens (Pursh.) Buchanan.
Generally distributed, Queen Charlotte Islands; Vancouver Island.

MADIA (Tarweed).

M. dissitiflora (Nutt.) T. & G.
Locally distributed, Sidney, V.I., *Macoun.*

M. exigua Smith.
Generally distributed, southern half of Vancouver Island—Alberni; Victoria.

M. glomerata Hook.
Generally distributed, southern half of Vancouver Island.

M. madioides Nutt.
Common. Southern half of Vancouver Island.

M. racemosa (Nutt.) T. & G.
Common. Southern half of Vancouver Island.

M. sativa Mol.
Generally distributed, southern half of Vancouver Island—Alberni to Victoria.

MICROSERIS.

M. Bigelovii Gray.
Locally distributed, southern half of Vancouver Island—Nanoose; Victoria.

ONOPORDUM (Scotch Thistle).

O. Acanthium L.
Locally distributed, Vancouver Island—Nanaimo; Cowichan River.

PETASITES (Coltsfoot; Butterbur).

P. frigida (L.) Fries. (Alpine Coltsfoot.)
Locally distributed in the mountains, Vancouver Island—Mount Arrowsmith.

P. speciosa (Nutt.) Piper. (Palmate-leaf Sweet Coltsfoot; Butterbur.)
Common, Vancouver Island.

PRENANTHES (Rattlesnake Root).

P. hastata (Less.) A. Gray.
Common, Queen Charlotte Islands; Vancouver Island.

PSILOCARPHUS.

P. elatior Gray.
Victoria, V.I.; Sidney, V.I. *Macoun.*

P. oregonus Nutt:
Saanichton, V.I., *Macoun.*

P. tenellus Nutt.
Victoria, V.I.; Deep Cove, V.I., *Macoun.*

RUDBECKIA (Cone-flower).

R. hirta L. (Black-eyed Susan; Yellow Daisy.)
Locally distributed, Comox, V.I.; Cowichan, V.I.

SAUSSUREA (Saw-wort).

S. densa (Hook.) Rydb.
Locally distributed, Mount Benson, V.I.

SENECIO (Groundsel; Ragwort).

S. Balsamitæ Muhl.
Locally distributed, Vancouver Island—Comox, north, on the east side of the Island.

S. fastigiatus Nutt. var. Macounii (Greene.) Greenman.
Generally distributed, Vancouver Island, chiefly on the east side.

S. Newcombei Greene.
Locally distributed, West Coast, Queen Charlotte Islands, *Dr. C. F. Newcombe.*

S. Pseudo-Arnica Less. (Sea-beach Senecio.)
Locally distributed, Vancouver Island; Queen Charlotte Islands, *Dawson.*

S. resedifolius Less.
Locally distributed, Queen Charlotte Islands. (Osgood, "North American Fauna," No. 21.)

S. sylvaticus L. (Wood Groundsel.)
Common, Vancouver Island.

S. triangularis Hook.
Locally distributed, Vancouver Island—Mount Arrowsmith; Chemainus River.

S. vulgaris L. (Common Groundsel.)
Common, Vancouver Island.

SERICOCARPUS (White-topped Aster).

S. rigidus Lindl.
Locally distributed, Vancouver Island—Wellington; Cowichan; Victoria.

SILYBUM (Milk Thistle).

S. marianum (L.) Gaertn.
Locally distributed, Nanaimo, V.I.

SOLIDAGO (Golden-rod).

S. glutinosa Nutt.
Locally distributed, Vancouver Island—Comox, *Macoun*; Alberni.
S. humilis Pursh.
Locally distributed, Mount Benson, V.I., *J. R. Anderson*.
S. lepida DC.
Common, Vancouver Island; Skidegate, Queen Charlotte Islands.
var. elongata (Nutt.) Fernald.
Common, Vancouver Island.
S. salebrosa Piper.
Oak Bay, Victoria, V.I., *Dr. C. F. Newcombe*.

SONCHUS (Sow Thistle).

S. arvensis L. (Annual Sow Thistle.)
Common, Vancouver Island.
S. asper (L.) Hill. (Spiny Sow Thistle.)
Common, Vancouver Island.
S. oleraceus L. (Hare's Lettuce.)
Common, Vancouver Island.

STEPHANOMERIA.

S. minor Nutt.
The only record, Campbell River, V.I., *J. R. Anderson*.

TANACETUM (Tansy).

T. huronense Nutt. (Lake Huron Tansy.)
Locally distributed, Queen Charlotte Islands, *Dawson*, Vancouver Island—Renfrew District; Telmôet; Clayoquot; Nootka.
T. vulgare L.
Generally distributed, Vancouver Island.

TARAXACUM (Dandelion).

T. officinale Weber.
Common, Vancouver Island.

TRAGOPOGON (Salsify; Oyster Plant).

T. porrifolius L. (Purple Oyster Plant.)
Locally distributed, Vancouver Island—Victoria; Cowichan.

XANTHIUM (Cocklebur).

X. spinosum (Spiny Burweed.)
Rare, Vancouver Island—Nanaimo, *Macoun*.

ADDENDA.

On page 9.

After Equisetum palustre L. insert E. pratense Ehrh. Locally distributed, Victoria, Alberni, Cameron Lake, V.I.

After Lycopodium sitchense Rupr. insert L. sabinaefolium Willd. Mount Arrowsmith, V.I., *Macoun*.

On page 11.

After Potamogeton affinis Hahis insert P. amplifolius Tuckerm. Victoria, V.I., *Macoun*.

On page 13.

Insert Agrostis exarata Trin. in place of *A. exarata* x *alba*.

After Agrostis exarata Trin. insert A. hiemalis Vasey. *Macoun*, No. 20139.

Omit Agrostis hiemalis Schribner, which is a synonym of *A. geminata* (Presl.) Kunth.

Insert Agrostis Rossae Vasey for *A. variabilis* Trin.

After Agrostis stolonifera L. omit var. maritima.

Omit Agrostis vulgaris With., a variety of *A. alba* L.

Alopecurus aristulatus Torr., a variety of *A. geniculatus*.

On page 14.

Bromus communtatus Schrad. introduced.

After Bromus ciliatus (Shear.) Piper insert B. Hookerianus Thurber. Generally distributed, southern half of Vancouver Island.

On page 20.

After Polypogon littoralis (With.) Smith insert P. Monspeliensis (L.) Desf. *Macoun*, both of which are introduced.

On page 23.

Omit Carex leiocarpa C. A. Meyer, a synonym of *C. xanthocarpa* Presl.

On page 26.

Omit Juncus nodosus L.

On page 36.

Cerastium viscosum introduced.

On page 42.

Omit Brassica sinapiscarpa Boles., a synonym of *B. arvensis* (L.) Kize.

On page 46.

After Sedum stenopetalum Pursh, omit Queen Charlotte Islands.

On page 49

Potentilla albida Rydb. introduced.

On page 54.

Vicia lathyroides L. introduced.

On page 55.

After Euphorbia hirsuta (Torr.) Wiegand insert E. Lathyrus L. Victoria, V.I.

On page 57.

Elodea campanulata Pursh, is Hypericum virginicum of Gray's List.

On page 62.

Osmorrhiza brevipes (C. & R.) Suksdorf.

On page 69.

Omit Allocarya californica (DC.) Greene; not credited to Washington or British Columbia by Professor C. V. Piper.

On page 71.

Omit Mentha viridis L., a synonym of M. spicata L.

On page 77.

Omit Valeriana septentrionalis Rydb.

On page 80.

After Artemisia ludoviciana Nutt. insert A. occidentalis Nutt. Victoria, V.I.

On page 84.

After Madia sativa Mol. insert M. sativa capitata (Nutt.) Piper. Piper & Beattie's "Flora of the Northwest Coast"; probably our common form referred by us to M. sativa Mol.

In conclusion, we are largely indebted to Professor C. V. Piper, of Washington, D.C., for the identification of many of our plants which would not otherwise have appeared in this List.

INDEX TO FAMILIES.

	Page.
Aceraceæ	56
Alismaceæ	12
Amaranthaceæ	35
Anacardiaceæ	55
Apocynaceæ	68
Araceæ	25
Araliaceæ	60
Aristolochiaceæ	33
Berberidaceæ	41
Betulaceæ	32
Boraginaceæ	69
Cactaceæ	58
Callitrichaceæ	55
Campanulaceæ	77
Caprifoliaceæ	76
Caryophyllaceæ	35
Celastraceæ	56
Ceratophyllaceæ	39
Chenopodiaceæ	34
Compositæ	78
Convolvulaceæ	68
Cornaceæ	63
Crassulaceæ	45
Cruciferæ	42
Cucurbitaceæ	77
Cyperaceæ	21
Droseraceæ	45
Elæagnaceæ	58
Elantinaceæ	57
Empetraceæ	56
Equisetaceæ	9
Ericaceæ	63
Euphorbiaceæ	55
Fagaceæ	32
Fumariaceæ	41
Gentianaceæ	67
Geraniaceæ	55
Gramineæ	12
Haloragidaceæ	60
Hydrophyllaceæ	69
Hypericaceæ	57
Iridaceæ	29
Isoetaceæ	10
Juncaceæ	25
Juncaginaceæ	12
Labiatæ	71
Leguminosæ	51

	Page.
Lemnaceæ	25
Lentibulariaceæ	75
Liliaceæ	27
Limnanthaceæ	56
Linaceæ	55
Lobeliaceæ	78
Loranthaceæ	32
Lycopodiaceæ	9
Lythraceæ	58
Malvaceæ	56
Myricaceæ	32
Najadaceæ	11
Nyctaginaceæ	35
Nymphæaceæ	39
Onagraceæ	58
Ophioglossaceæ	8
Orchidaceæ	30
Orobanchaceæ	75
Oxalidaceæ	55
Papaveraceæ	41
Pinaceæ	10
Plantaginaceæ	76
Plumbaginaceæ	66
Polemoniaceæ	68
Polygonaceæ	33
Polypodiaceæ	7
Portulacaceæ	38
Primulaceæ	66
Ranunculaceæ	39
Rhamnaceæ	56
Rosaceæ	48
Rubiaceæ	76
Salicaceæ	31
Santalaceæ	32
Saxifragaceæ	46
Scrophulariaceæ	72
Selaginellaceæ	9
Solanaceæ	72
Sparganiaceæ	11
Taxaceæ	10
Typhaceæ	11
Umbelliferæ	60
Urticaceæ	32
Valerianaceæ	77
Verbenaceæ	71
Violaceæ	57

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